

Incident ID	nRM2019635761
District RP	
Facility ID	
Application ID	

Remediation Plan

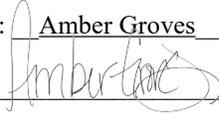
Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Amber Groves Title: Remediation Coordinator
 Signature:  Date: 1/20/2021
 email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: Karen Collins Date: 04/27/2021

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 04/27/2021

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Closure

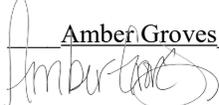
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 Coordinator

Signature:  Date: 1/20/2021

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: _____ Date: _____

Printed Name: _____ Title: _____



12600 WEST CO RD 91

MIDLAND, TX 79707

OFFICE: 432.653.4203

SOIL REMEDIATION ACTIVITIES REPORT AND CLOSURE/DEFERRAL REQUEST

PLAINS PIPELINE, L.P.

RIDGENOSE FEDERAL COM #1H TANK BATTERY RELEASE

EDDY COUNTY, NM

NMOCD INCIDENT #: NRM2019635761

SRS #: 2020-062

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January 28, 2021

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

Re: Soil Remediation Activities Report and Closure/Deferral Request

Ridge Nose Federal Com #1H Tank Battery Release

Unit Letter G, Section 31, Township 26S, Range 29E

GPS: N 32.000269°, W -104.023384°

Eddy County, New Mexico

NMOCD Incident #s: NRM2019635761

SRS #: 2020-062

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and Closure/Deferral Request on behalf of Plains Pipeline, L.P. (Plains) to document the field soil remediation activities that were conducted at the Ridge Nose Federal Com #1H Tank Battery Release site. The crude oil release occurred, approximately 15.71 miles south to southeast of Malaga in Eddy County, New Mexico in Unit Letter G, Section 31, Township 26S, and Range 29E. The GPS coordinates for the site is N 32.000269° and W -104.023384°. A "Site Location Map" and "Topographic Map" are provided as Figures 1 and 2, respectively.

2. Release Description and Response

On July 3, 2020, a crude oil release occurred at the Ridge Nose Federal Com #1H Tank Battery and was attributed to a valve pressure release from a nipple on the LACT unit. Approximately ninety (90) barrels (bbls) of crude was released with eighty (80) bbls recovered for a net loss of ten (10) bbls of crude. The release was contained to the production pad affecting two areas measuring approximately

one twenty (120) feet (ft) in length by seventy-five (75) ft in width with a maximum depth of fifteen (15) ft below ground surface (bgs) (on pad and adjacent to wellhead) and one hundred (100) ft in length by seventy-five (75) ft in width with a maximum depth of nine (9) ft bgs (adjacent to LACT unit and tank battery).

On July 3, 2020, Dean was assigned management oversight responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains. On July 7, 2020, Plains submitted the initial C-141 Form to the NMOCD. See Appendix A for filed C-141.

3. NMOCD Regulatory Limits

New Mexico Oil Conservation Division (NMOCD) assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and follow the criteria in the revised August 2018 Title 19 Chapter 15 Part 29 New Mexico Administration 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 in or near Unit Letter G, Section 31, Township 26S, and Range 29E. Neither of the two databases identified any registered water wells in or near Unit Letter G, Section 31, Township 26S, and Range 29E. However, according to the NMOSE website, one (1) water well (C 04022 POD2) is located approximately 2.95 miles northwest of the site in Section 27, Township 26S, and Range 28E with an average groundwater depth of 145 ft bgs and a second well (C 02160 S7) is located approximately 4.25 miles west northwest of the site in Section 22, Township 26S, and Range 29E with an average groundwater depth of 120 ft bgs. See Appendix B for the NMOSE for water column average depths. In addition, according to the Bureau of Land Management (BLM), the site is located in an area of medium potential karst topography. A Plain’s representative spoke with a BLM representative on July 7, 2020, regarding the medium karst topography. In accordance with the BLM, Plains was instructed to treat the site as though it was a high karst topography. See Figure 3 “Site Location Relative to Known Regional Karst Topography”. As outlined in 19.15.29.12.B. (4) NMAC, the release does occur in referenced sensitive areas, with the nearest water body feature being the Pecos River located approximately 1.54 miles north of the site. Meeting the previous criteria, and in accordance with the BLM, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons in areas of medium/high potential karst topography are as follow:

- Chloride 600 mg/Kg
- Total TPH 100 mg/Kg
- Benzene 10 mg/Kg

- Total BTEX 50 mg/Kg

4. Initial Soil Assessment Activities and Sample Analysis

On July 8, 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 impacts. Soil samples were collected at two (2) ft. intervals beginning at one (1) ft below ground surface (bgs) to maximum depths ranging from three (3) ft. to eight (8) ft bgs across eight (8) auger hole locations (AH-1 through AH-8) and 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. The Total TPH concentrations were above the NMOCD standards of 100 mg/Kg for all soil samples analyzed with the exception of soil samples AH-1 @ 1', AH-2 @ 1', AH-3 @ 1', AH-4 @ 3', AH-5 @ 5', and AH-6 @ 3'. The Total TPH concentrations exceeding the NMOCD standards ranged from 102 mg/Kg (AH-6 @ 1') to 36,160 mg/kg (AH-7 @ 5'). The Total TPH was not delineated in auger holes AH-7 and AH-8 due to auger refusal. The Total TPH in the area was later delineated with auger hole samples AHW and AHF at depths of 9 ft bgs (55.8 mg/Kg) and 24 ft bgs (<28.7 mg/Kg), respectively. Chlorides were below NMOCD standards of 600 mg/Kg for all soil samples collected and analyzed with the exception of soil samples AH-1 @ 1', AH-1 @ 3', AH-1 @ 5', AH-1 @ 7', AH-2 @ 1', and AH-6 @ 1' and ranged in concentration from 926 mg/Kg (AH-6 @ 1') to 7,070 mg/Kg (AH-1 @ 1'). Chlorides were not delineated in auger hole AH-1. 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 Delineation and Remediation with Confirmation Soil Sampling

Between July 13 and November 20, 2020, Dean Personnel conducted oversight of soil delineation, remediation and backfilling activities of a Plain's third-party contractor at the Ridge Nose Federal Com #1 H Tank Battery Release site. Remediation commenced utilizing a backhoe and hand excavation of hydrocarbon and chloride impacted soils adjacent to the LACT unit, and hydrocarbons on adjacent tank battery and associated pad with the excavated soils stockpiled on plastic. In order to complete delineation and remediation at the site, field screening utilizing a photoionization detector (PID) and

chloride test kits was conducted on the soils. Based on field PID, chloride screening, and analytical results, the site was excavated to a maximum depth of fifteen (15) ft bgs. The release was contained to the production pad affecting two areas with final dimensions of approximately one hundred (100) feet (ft) in length by seventy-five (75) ft in width (on pad and adjacent to wellhead) and one hundred (100) ft in length by seventy-five (75) ft in width (adjacent to LACT unit and tank battery). See Site Photographs in Appendix D. Approximately 2,015 cubic yards of soil were removed and stockpiled on plastic at the site. Due to limited accessibility around the LACT unit, additional hydrocarbon impacted soils above NMOCD cleanup standards of 100 mg/Kg TPH could not be excavated and were left in-situ. In addition, elevated chlorides, not associated with the LACT unit release, on the pad and adjacent to the producer's well head were left in-situ with NMOCD approval. Initial soil sampling adjacent to the LACT unit (AH-7 and AH-8) had chloride concentrations which ranged from 14 mg/Kg for AH-7 @ 7' to 495 mg/Kg for AH-8 @ 1'. Hence, chlorides do not appear to be associated with the release from the LACT unit.

Between July 14 and September 2, 2020, seventy-six (76) bottom hole wall samples (BH-1 through BH-76 ranging in depth of one [1] ft to fifteen [15] ft bgs) were collected and submitted for analysis of BTEX, Total TPH, and Chlorides. See Figure 5 "Site Details and Bottom Hole Sample Location Map". All soil samples were collected based on a 200 square foot grid 5-point composite and submitted for analysis of Benzene and Total BTEX were below the NMOCD recommended remediation action levels (RRAL) of 10 mg/Kg and 50 mg/Kg, respectively. All soil samples were below the Total TPH NMOCD RRAL in all samples analyzed with the exception of ten (10) soil samples (BH-8 @ 3', BH-20 @ 7', BH-22 @ 3', BH-24 @ 3', BH-25 @ 3', BH-31 @ 3', BH-34 @ 3', BH-35 @ 3', BH-46 @ 3' and BH-60 @ 5') which ranged in concentration from 130 mg/Kg (BH-31 @ 3') to 1,440.30 mg/Kg (BH-22 @ 3'). After further excavation in these areas, additional sampling for TPH exhibited concentrations of less than 100 mg/Kg for all samples collected and analyzed. All soil samples were below the Chloride NMOCD RRAL of 600 mg/Kg, with the exception of twenty-six (26) soil samples with concentrations ranging from 623 mg/Kg (BH-43 @ 9') to 8,020 mg/Kg (BH-41 @ 3'). See Table 2 Confirmation-Concentrations of Benzene, BTEX, Chlorides, and TPH in soil for analytical results. Since the twenty-six (26) soil samples were collected in an area of elevated chlorides not associated with the LACT unit release, the soils were left in-situ with permission of the NMOCD and BLM. (See Section 6 below for details of variance request).

Between July 14 and September 2, 2020, fifty-four (54) wall soil samples (EW-1 through EW-10, SW-1 through SW-10, SH-1, NW-1 through NW-10, and NE Wall, ranging in depth from one and half [1.5] ft to twelve [12] ft bgs) were collected and submitted for analysis of Benzene, Total BTEX, Total TPH, and Chlorides. See Figure 6 "Site Details and Wall Hole Sample Location Map" and Figure 7 "Site Details and Wall Hole Sample Location Map Cont. Pump Area". All samples were collected and submitted

based on a 200 ft square grid 5 point composite for analysis of Benzene and Total BTEX were below the NMOCD RRAL for all samples analyzed with the exception of soil sample EW-2 @ 4' on July 17, 2020 with a concentration of 157.76 mg/Kg, Total BTEX and Pump West Wall @ 4' with a concentration of 25.3 mg/Kg benzene and 322.7 mg/Kg, total BTEX. After further excavation, soil sample EW-2 @ 4' was resampled on August 7, 2020 with a Total BTEX concentration result of 0.05332 mg/Kg. Due to the location of Pump West Wall sample beneath LACT unit, further excavation was not possible and the soils were left in-situ. All wall soil samples were below the Chloride NMOCD RRAL of 600 mg/Kg with the exception of ten (10) soil samples which had concentrations ranging from 600 mg/Kg (SW-1 @ 1.5') to 7,700 mg/Kg (SW-6 @ 1.5'). Since the ten (10) soil samples were collected in an area of elevated chlorides not associated with the LACT unit release, the soils were left in-situ with permission of the NMOCD and BLM. (See Section 6 below for details of variance request).

In order to complete vertical soil delineation impacts that remain adjacent to the LACT unit, two soil hand augers (AHF and AHW) were installed on August 10 and 18, 2020. See Figure 7 for location. Auger holes AHF and AHW were installed in the floor and west wall, respectively, adjacent to the LACT unit and Pump West Wall sample. A total of ten (10) floor soil samples (AHF @ 7', AHF @ 9', AHF @ 11', AHF @ 12', AHF @ 14', AHF @ 16', AHF @ 18', AHF @ 20', AHF @ 22' and AHF @ 24') were collected and select samples submitted for analysis of Benzene, Total BTEX, and Chlorides, and all soil samples for TPH. All samples analyzed for Benzene, Total BTEX and Chlorides were below NMOCD RRAL. All samples analyzed for total TPH were above the NMOCD RRAL of 100 mg/Kg, with the exception of soil sample AHF @ 24' which had a concentration of <28.7 mg/Kg. A total of five (5) soil samples (AHW @ 1', AHW @ 3', AHW @ 5', AHW @ 7' and AHW @ 9') were collected and select samples submitted for analysis of Benzene, Total BTEX, and Chlorides, and all soil samples for TPH. All samples analyzed for Benzene, Total BTEX, and Chlorides were below NMOCD RRAL. All samples analyzed for total TPH were above the NMOCD RRAL of 100 mg/Kg, with the exception of soil sample AHW @ 9' which had a concentration of 55.8 mg/Kg.

6. Variance Request with NMOCD and BLM Response

In an email dated September 4, 2020, Plains requested a variance to the NMOCD and BLM to the current rules, due to limited accessibility to soils (i.e. LACT Unit), thus allowing the remaining hydrocarbon impacted soils represented by soil samples Pump West Wall, AHW, and AHF to be left in-situ until abandonment of the LACT unit. In addition, Plains had requested a cessation of further excavation of elevated chlorides at the site, which appear to originate from a separate producer's source other than the LACT unit. A composite surface soil sample (WH-1) was collected outside the release area and adjacent to the wellhead with a chloride concentration result of 2,380 mg/Kg, indicating the

source of elevated chlorides is at or near the producer's wellhead. A background chloride sample BG-1 collected northwest off pad had a concentration of 20 mg/Kg which are similar to soils around the LACT unit, further indicating chlorides are from another source. In an email dated November 10, 2020, the NMOCD granted approval of the deferral of remediation of hydrocarbons until abandonment and agrees that no further action is required by Plains on the chlorides. In an email dated November 12, 2020, the BLM concurred with the NMOCD's approval. See Appendix E for NMOCD variance approval and BLM concurrence emails.

7. Soil Disposal and Site Restoration

Between August 28 and September 3, 2020, approximately 2,015 cubic yards of soil were transported offsite for disposal at Lea Land in Carlsbad, New Mexico. See Appendix F for waste manifests. The site was then backfilled with locally sourced non-impacted soils and brought up to surface grade.

8. Closure Request

With the completion of the excavation/backfilling of the impacted soils along with approval by NMOCD and BLM of the variance request, Plains believes the site has been remediated to within standards set forth by the NMOCD approval email dated November 10, 2020. As such, Plains respectfully requests that the NMOCD consider the site for deferred closure. A C-141 closure is attached to the front of this report.

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

Sincerely,


Sylwia Reynolds

Project Manager


Jeffrey Kindley, P.G.

Professional Geologist

TABLES



Chemistry Table 2
Confirmation - Concentrations of Benzene, BTEX, Chlorides, and TPH in soil
Plains Pipeline, L.P.
Ridge Nose Battery Release
Eddy County, New Mexico
SRS # 2020-062

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)
Bottom Hole Samples															
BH-1 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	281	<27.5	<27.5	<27.5	<27.5	<27.5
BH-2 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	355	<27.8	<27.8	<27.8	<27.8	<27.8
BH-3 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	123	<27.5	<27.5	<27.5	<27.5	<27.5
BH-4 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	213	<27.5	<27.5	<27.5	<27.5	<27.5
BH-5 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	167	<27.8	<27.8	<27.8	<27.8	<27.8
BH-6 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	436	<28.1	<28.1	<28.1	<28.1	<28.1
BH-7 @3'	07/14/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	424	<27.8	<27.8	<27.8	<27.8	<27.8
BH-8 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	0.00755	0.00755	93.8	<27.5	278	278	42.8	320.8
BH-8 @5'	08/04/20	5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<29.1	<29.1	<29.1	<29.1	<29.1
BH-9 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	17.3	<28.1	51.1	51.1	<28.1	51.1
BH-10 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	13.5	<27.8	<27.8	<27.8	<27.8	<27.8
BH-11 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	140	<27.8	<27.8	<27.8	<27.8	<27.8
BH-12 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	142	<26.0	<26.0	<26.0	<26.0	<26.0
BH-13 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	0.00201	0.00189	0.01252	0.01642	122	<27.8	<27.8	<27.8	<27.8	<27.8
BH-14 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	177	<28.1	<28.1	<28.1	<28.1	<28.1
BH-15 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	206	<27.8	<27.8	<27.8	<27.8	<27.8
BH-16 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	256	<27.8	<27.8	<27.8	<27.8	<27.8
BH-17 @3'	07/16/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	123	<27.8	<27.8	<27.8	<27.8	<27.8
BH-18 @7'	07/17/20	7ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00200	<0.00500	<0.00500	45.5	<29.1	<29.1	<29.1	<29.1	<29.1
BH-19 @7'	07/17/20	7ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00200	<0.00500	<0.00500	82.3	<27.8	<27.8	<27.8	<27.8	<27.8
BH-20 @7'	07/17/20	7ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00200	<0.00500	<0.00500	51.9	<27.8	141	141	<27.8	141
BH-20 @8'	08/04/20	8ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.4	<28.4	<28.4	<28.4	<28.4
BH-21 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00200	<0.00500	<0.00500	166	<27.8	77.8	77.8	<27.8	77.8
BH-22 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	0.00201	0.0124	0.0448	0.05921	44.3	86.3	1,180	1,266.30	174	1,440.30
BH-22 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	<27.8
BH-23 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	61.7	<27.8	77.9	77.9	<27.8	<27.8
BH-24 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	27.1	<27.2	206	206	39.4	245.4
BH-24 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
BH-25 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	52.7	<28.1	195	195	39.9	234.9
BH-25 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	<27.8
BH-26 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	130	<28.1	85.0	85.0	<28.1	85.0
BH-27 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	71.0	<27.8	83.1	83.1	<27.8	83.1
BH-28 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	187	<27.8	68.2	68.2	<27.8	68.2
BH-29 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	60.4	<28.1	<28.1	<28.1	<28.1	<28.1
BH-30 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	127	<28.1	<28.1	<28.1	<28.1	<28.1
BH-31 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	218	<27.8	130	130	<27.8	130
BH-31 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.4	<28.4	<28.4	<28.4	<28.4
BH-32 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	197	<28.1	<28.1	<28.1	<28.1	<28.1
BH-33 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	192	<28.7	<28.7	<28.7	<28.7	<28.7
BH-34 @3'	07/17/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	0.00101	0.00329	0.00430	244	<28.1	214	214	54.1	268.1
BH-34 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	<27.8
BH-35 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	0.00106	<0.00100	0.00220	0.00326	6,540	<27.8	118	118	45.3	163.3
BH-35 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
BH-36 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	3,110	<28.1	52.9	52.9	<28.1	52.9
BH-37 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	4,880	<28.7	<28.7	<28.7	<28.7	<28.7
BH-38 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	4,240	<27.8	<27.8	<27.8	<27.8	<27.8
BH-39 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	2,390	<27.8	<27.8	<27.8	<27.8	<27.8
BH-40 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	1,210	<29.4	<29.4	<29.4	<29.4	<29.4
BH-41 @3'	07/21/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	8,020	<27.8	<27.8	<27.8	<27.8	<27.8
BH-42 @8'	07/22/20	8ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	918	<28.4	41.4	41.4	<28.4	41.4
BH-43 @8'	07/22/20	8ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	1,240	<28.1	<28.1	<28.1	<28.1	<28.1
BH-43 @9'	07/23/20	9ft	COMPOSITE	SOIL	-	-	-	-	-	623	-	-	-	-	-
BH-44 @8'	07/22/20	8ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	2,080	<28.4	<28.4	<28.4	<28.4	<28.4
BH-45 @3'	07/22/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	891	<26.9	<26.9	<26.9	<26.9	<26.9
BH-46 @3'	07/22/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	872	<27.2	351	351	45.3	696.3



Chemistry Table 2
Confirmation - Concentrations of Benzene, BTEX, Chlorides, and TPH in soil
Plains Pipeline, L.P.
Ridge Nose Battery Release
Eddy County, New Mexico
SRS # 2020-062

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)
Bottom Hole Samples															
BH-46 @4'	08/05/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.2	<27.2	<27.2	<27.2	<27.2
BH-47 @3'	07/22/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	890	<27.2	<27.2	<27.2	<27.2	<27.2
BH-48 @3'	07/22/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	436	<26.9	<26.9	<26.9	<26.9	<26.9
BH-49 @3'	07/22/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	367	<27.2	<27.2	<27.2	<27.2	<27.2
BH-50 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	1,130	<27.5	27.5	27.5	<27.5	27.5
BH-51 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	634	<26.3	<26.3	<26.3	<26.3	<26.3
BH-52 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	893	<28.1	<28.1	<28.1	<28.1	<28.1
BH-53 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	1,250	<28.1	<28.1	<28.1	<28.1	<28.1
BH-54 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	2,730	<27.5	<27.5	<27.5	<27.5	<27.5
BH-55 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	354	<27.8	<27.8	<27.8	<27.8	<27.8
BH-56 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	579	<28.1	<28.1	<28.1	<28.1	<28.1
BH-57 @6'	07/24/20	6ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	1,260	<27.2	<27.2	<27.2	<27.2	<27.2
BH-58 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	102	<26.6	<26.6	<26.6	<26.6	<26.6
BH-59 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	1,350	<28.1	<28.1	<28.1	<28.1	<28.1
BH-60 @5'	07/24/20	5ft	COMPOSITE	SOIL	<0.00100	0.00107	<0.00100	0.00262	0.00369	1,730	36.1	463	499.1	70.3	569.4
BH-61 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	1,020	<27.5	<27.5	<27.5	<27.5	<27.5
BH-62 @3'	07/23/20	3ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	317	<27.5	<27.5	<27.5	<27.5	<27.5
BH-63 @9'	07/24/20	9ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	559	<27.5	<27.5	<27.5	<27.5	<27.5
BH-64 @10'	07/24/20	10ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	10.8	<29.1	<29.1	<29.1	<29.1	<29.1
BH-65 @10'	07/24/20	10ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	10.7	<35.2	<35.2	<35.2	<35.2	<35.2
BH-66 @10'	07/24/20	10ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	135	<28.4	30.3	30.3	<28.4	30.3
BH-67 @7'	08/07/20	7ft	COMPOSITE	SOIL	0.00162	0.00527	0.00339	0.01653	0.02681	56.2	<28.1	33.9	33.9	<28.1	33.9
BH-68 @1'	09/02/20	1ft	COMPOSITE	SOIL	<0.00108	<0.00108	<0.00108	<0.00215	<0.00108	796	<26.9	<26.9	<26.9	<26.9	<26.9
BH-69 @1'	09/02/20	1ft	COMPOSITE	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	695	<26.6	<26.6	<26.6	<26.6	<26.6
BH-70 @1'	09/02/20	1ft	COMPOSITE	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	651	<26.6	<26.6	<26.6	<26.6	<26.6
BH-71 @4'	09/02/20	4ft	COMPOSITE	SOIL	<0.00111	<0.00111	<0.00111	<0.00222	<0.00111	25.7	<27.8	<27.8	<27.8	<27.8	<27.8
BH-72 @4'	09/02/20	4ft	COMPOSITE	SOIL	<0.00110	<0.00110	<0.00110	<0.00220	<0.00110	124	<27.5	<27.5	<27.5	<27.5	<27.5
BH-73 @4'	09/02/20	4ft	COMPOSITE	SOIL	<0.00114	<0.00114	<0.00114	<0.00227	<0.00114	84	<28.4	<28.4	<28.4	<28.4	<28.4
BH-74 @9'	09/02/20	9ft	COMPOSITE	SOIL	<0.00116	<0.00116	<0.00116	<0.00233	<0.00116	140	<29.1	<29.1	<29.1	<29.1	<29.1
BH-75 @9'	09/02/20	9ft	COMPOSITE	SOIL	<0.00114	<0.00114	<0.00114	<0.00227	<0.00114	46.6	<28.4	<28.4	<28.4	<28.4	<28.4
BH-76 @15'	09/02/20	15ft	COMPOSITE	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	25.7	<26.6	<26.6	<26.6	<26.6	<26.6
WALL SAMPLES															
EW-1 @1.5'	07/14/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	0.00107	0.00315	0.00422	571	<26.0	<26.0	<26.0	<26.0	<26.0
EW-2 @4'	07/17/20	4ft	COMPOSITE	SOIL	6.66	28.0	24.3	98.8	157.76	49	7,630	16,100	23,730	2,380	26,110
EW-2 @4'	08/07/20	4ft	COMPOSITE	SOIL	0.00377	0.0199	0.00582	0.02383	0.05332	-	<28.7	<28.7	<28.7	<28.7	<28.7
EH-1 @1'	07/24/20	1ft	GRAB	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	25.9	<28.4	49.9	49.9	<28.4	49.9
EH-1 @3'	07/24/20	3ft	GRAB	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	20.2	<29.1	80.2	80.2	36.7	116.9
EH-1 @5'	07/24/20	5ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	<28.7	<28.7	<28.7	<28.7
EW-3 @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	188	<25.8	250	250	46.1	296.1
EW-3 @1.5'	08/05/20	1.5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.5	<27.5	<27.5	<27.5	<27.5
EW-4 @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	0.00954	0.110	0.172	0.742	1.03354	215	1,070	4,120	5,190	569	5,759
EW-4 @1.5'	08/05/20	1.5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.5	<27.5	<27.5	<27.5	<27.5
EW-5 @2'	07/27/20	2ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	111	<26.0	<26.0	<26.0	<26.0	<26.0
EW-6 @4'	07/27/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	1,400	<26.3	<26.3	<26.3	<26.3	<26.3
EW-7 @3.5'	08/07/20	3.5ft	COMPOSITE	SOIL	0.00134	0.00227	<0.00108	<0.00215	0.00361	21	<26.9	<26.9	<26.9	<26.9	<26.9
EW-8 @2'	09/02/20	2ft	COMPOSITE	SOIL	<0.00109	<0.00109	<0.00109	<0.00217	<0.00109	211	<27.2	<27.2	<27.2	<27.2	<27.2
EW-9 @6'	09/02/20	2ft	COMPOSITE	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	70.9	<26.6	<26.6	<26.6	<26.6	<26.6
EW-10 @12'	09/02/20	12ft	COMPOSITE	SOIL	<0.00109	<0.00109	<0.00109	<0.00217	<0.00109	32.7	<27.2	<27.2	<27.2	<27.2	<27.2
SW-1 @1.5'	07/14/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	600	<26.0	<26.0	<26.0	<26.0	<26.0
SW-2 @4'	07/17/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00200	0.00591	0.02709	0.033	133	45.9	652	697.9	93.4	791.3
SW-2 @4'	08/07/20	4ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
SW-3 @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	50.2	<26.6	<26.6	<26.6	<26.6	<26.6
SH-1 @1'	07/24/20	1ft	GRAB	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	75.7	<27.8	<27.8	<27.8	<27.8	<27.8
SH-1 @3'	07/24/20	3ft	GRAB	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	62.3	33.8	72.8	107	34.4	141
SH-1 @5'	07/24/20	5ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	73.5	73.5	54.2	127.7



Chemistry Table 2
Confirmation - Concentrations of Benzene, BTEX, Chlorides, and TPH in soil
Plains Pipeline, L.P.
Ridge Nose Battery Release
Eddy County, New Mexico
SRS # 2020-062

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)
Bottom Hole Samples															
SH-1 @7'	07/24/20	7ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	45.3	45.3	35.8	81.1
SW-4 @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	114	<26.6	<26.6	<26.6	<26.6	<26.6
SW-5 @1.5'	07/24/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	788	<26.3	<26.3	<26.3	<26.3	<26.3
SW-5 @4'	07/27/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	790	<26.9	<26.9	<26.9	<26.9	<26.9
SW-6 @1.5'	07/24/20	1.5ft	COMPOSITE	SOIL	<0.00100	0.00107	<0.00100	<0.00200	0.00107	7,700	<26.0	505	505	<26.0	505
SW-7 @3.5'	08/07/20	3.5ft	COMPOSITE	SOIL	0.00190	0.00162	<0.00100	0.00200	0.00552	8.87	<28.7	<28.7	<28.7	<28.7	<28.7
SW-8 @2'	09/02/20	2ft	COMPOSITE	SOIL	<0.00110	<0.00110	<0.00110	<0.00220	<0.00110	53.2	<27.5	<27.5	<27.5	<27.5	<27.5
SW-9 @5'	09/02/20	5ft	COMPOSITE	SOIL	<0.00111	<0.00111	<0.00111	<0.00222	<0.00111	59.0	<27.8	<27.8	<27.8	<27.8	<27.8
SW-10 @12'	09/02/20	12ft	COMPOSITE	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	18.3	<26.6	<26.6	<26.6	<26.6	<26.6
WW-1 @1.5'	07/14/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	263	<26.6	<26.6	<26.6	<26.6	<26.6
WW-2 @4'	07/17/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00200	0.00718	0.00718	46.3	<28.7	<28.7	<28.7	<28.7	<28.7
WW-3 @1.5'	07/24/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	3,520	<27.2	<27.2	<27.2	<27.2	<27.2
WW-4 @5'	07/24/20	5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	910	<26.6	<26.6	<26.6	<26.6	<26.6
WW-5 @5'	07/24/20	5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	440	<26.9	183	183	<26.9	183
WW-6 @5'	07/24/20	5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	193	<28.7	<28.7	<28.7	<28.7	<28.7
WW-7 @5'	07/24/20	5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	565	<25.5	26.5	27	<25.5	27
WW-8 @4'	07/27/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	2,270	<27.2	<27.2	<27.2	<27.2	<27.2
WW-9 @3.5'	08/07/20	3.5ft	COMPOSITE	SOIL	0.00129	<0.00115	<0.00115	<0.00230	0.00129	8.32	<28.7	<28.7	<28.7	<28.7	<28.7
WW-10 @12'	09/02/20	12ft	COMPOSITE	SOIL	<0.00105	<0.00105	<0.00105	<0.00211	<0.00105	13.5	<26.3	<26.3	<26.3	<26.3	<26.3
NW-1 @4'	07/17/20	4ft	COMPOSITE	SOIL	<0.00100	0.00537	0.00485	0.02403	0.03425	77.2	<28.1	56.4	56.4	<28.1	56.4
NW-2 @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	<0.00100	<0.00200	<0.00200	216	<27.5	117	117	28.4	145.4
NW-2 @1.5'	08/05/20	1.5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
NW-3 @1.5'	07/24/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	1,360	<26.0	<26.0	<26.0	<26.0	<26.0
NW-4 @2'	07/24/20	2ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	51.3	<28.4	135	135	<28.4	135.0
NW-4 @5'	09/02/20	5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
NW-5 @4'	07/25/20	4ft	COMPOSITE	SOIL	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	703	<29.1	<29.1	<29.1	<29.1	<29.1
NW-6 @3.5'	08/07/20	3.5ft	COMPOSITE	SOIL	0.00167	<0.00115	<0.00115	<0.00230	0.00167	24.2	<28.7	<28.7	<28.7	<28.7	<28.7
NW-7 @2'	09/02/20	2ft	COMPOSITE	SOIL	<0.00110	<0.00110	<0.00110	<0.00220	<0.00110	40.5	<27.5	<27.5	<27.5	<27.5	<27.5
NW-8 @12'	09/02/20	12ft	COMPOSITE	SOIL	<0.00109	<0.00109	<0.00109	<0.00217	<0.00109	50.6	<27.2	<27.2	<27.2	<27.2	<27.2
NE Wall @1.5'	07/17/20	1.5ft	COMPOSITE	SOIL	<0.00100	<0.00200	0.00110	0.00520	0.00630	132	<28.4	103	103	43.0	146
NE Wall @1.5'	08/05/20	1.5ft	COMPOSITE	SOIL	-	-	-	-	-	-	<27.5	<27.5	<27.5	<27.5	<27.5
LACT Soils Remaining In-Situ															
AHF @7'	08/10/20	7ft	GRAB	SOIL	2.27	4.91	4.92	18.75	30.85	15.7	3,940	14,000	17,940	1,830	19,770
AHF @9'	08/10/20	9ft	GRAB	SOIL	-	-	-	-	-	-	11,500	24,700	32,600	3,300	39,500
AHF @11'	08/10/20	11ft	GRAB	SOIL	-	-	-	-	-	-	7,930	18,300	26,230	2,540	28,770
AHF @12'	08/10/20	12ft	GRAB	SOIL	-	-	-	-	-	-	48.3	1,130	1,178	201	1,379.3
AHF @14'	08/18/20	14ft	GRAB	SOIL	-	-	-	-	-	-	<29.8	132	132	<29.8	132.0
AHF @16'	08/18/20	16ft	GRAB	SOIL	-	-	-	-	-	-	2,840	22,300	25,140	2,830	27,970
AHF @18'	08/18/20	18ft	GRAB	SOIL	-	-	-	-	-	-	<29.8	181	181	56.3	237.3
AHF @20'	08/18/20	20ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	113	113	<28.7	113
AHF @22'	08/18/20	22ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	143	143	<28.7	143
AHF @24'	08/18/20	24ft	GRAB	SOIL	-	-	-	-	-	-	<28.7	<28.7	<28.7	<28.7	<28.7
AHW @1'	08/10/20	1ft	GRAB	SOIL	0.132	4.69	4.74	17.81	27.372	16.4	3,990	12,100	16,090	1,590	17,680
AHW @3'	08/10/20	3ft	GRAB	SOIL	-	-	-	-	-	-	4,060	11,200	15,260	1,710	16,970
AHW @5'	08/10/20	5ft	GRAB	SOIL	-	-	-	-	-	-	4,090	10,400	14,490	1,650	16,140
AHW @7'	08/10/20	7ft	GRAB	SOIL	-	-	-	-	-	-	336	1,390	1,726	207	1,933
AHW @9'	08/10/20	9ft	GRAB	SOIL	-	-	-	-	-	-	<29.1	55.8	55.8	<29.1	55.8
WH-1 Surface	07/24/20	0in	COMPOSITE	SOIL	-	-	-	-	-	2,380	-	-	-	-	-
BG-1	07/24/20	0in	COMPOSITE	SOIL	-	-	-	-	-	20	-	-	-	-	-
Pump West Wall @4'	08/07/20	4ft	COMPOSITE	SOIL	25.3	71.4	46.6	179.4	322.7	27.5	7,530	11,800	19,330	2,000	21,330
NMOC Recommended Remediation Action Level					10	-	-	-	50	600	-	-	-	-	100

Exceeds NMOC Level



Chemistry Table 1
Delineation - Concentrations of Benzene, BTEX, Chlorides, and TPH in soil
Plains Pipeline, L.P.
Ridge Nose Battery Release
Eddy County, New Mexico
SRS # 2020-062

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)
Auger Hole															
AH-1 @1'	07/08/20	1 ft	Grab	soil	<0.00100	<0.00200	<0.00200	0.00307	0.00307	7,070	<27.2	97.1	97.1	<27.2	97.1
AH-1 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	4,030	-	-	-	-	-
AH-1 @5'	07/08/20	5 ft	Grab	soil	-	-	-	-	-	1,110	-	-	-	-	-
AH-1 @7'	07/08/20	7 ft	Grab	soil	-	-	-	-	-	2,080	-	-	-	-	-
AH-2 @1'	07/08/20	1 ft	Grab	soil	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	1,230	<26.9	86.5	86.5	<26.9	86.5
AH-2 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	299	-	-	-	-	-
AH-3 @1'	07/08/20	1 ft	Grab	soil	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	62.4	<27.5	87.7	87.7	<27.5	87.7
AH-3 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	51.3	-	-	-	-	-
AH-4 @1'	07/08/20	1 ft	Grab	soil	<0.00100	<0.00200	<0.00200	0.00657	0.00657	128	<27.5	205	205	30.5	235.5
AH-4 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	176	<29.4	90.4	90.4	<29.4	90.4
AH-5 @1'	07/08/20	1 ft	Grab	soil	0.0053	0.0568	0.108	0.519	0.627	54.3	1050	7850	8900	808	9708
AH-5 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	59.7	<28.7	134	134	<28.7	134
AH-5 @5'	07/08/20	5 ft	Grab	soil	-	-	-	-	-	112	<28.7	<28.7	<28.7	<28.7	<28.7
AH-6 @1'	07/08/20	1 ft	Grab	soil	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	926	<26.9	102	102	<26.9	102
AH-6 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	100	<27.5	<27.5	<27.5	<27.5	<27.5
AH-7 @1'	07/08/20	1 ft	Grab	soil	0.470	3.27	5.54	23.4	32.68	66.3	5,500	22,600	28,100	2,630	30,730
AH-7 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	66.7	6,580	24,200	30,780	3,450	34,230
AH-7 @5'	07/08/20	5 ft	Grab	soil	-	-	-	-	-	66.0	6,000	26,300	32,300	3,860	36,160
AH-7 @7'	07/08/20	7 ft	Grab	soil	-	-	-	-	-	14.0	47.5	528	575.5	96.5	672
AH-8 @1'	07/08/20	1 ft	Grab	soil	0.0390	0.202	0.236	0.857	1.334	495	2,620	16,100	18,720	2,090	20,180
AH-8 @3'	07/08/20	3 ft	Grab	soil	-	-	-	-	-	274	282	2,990	3,272	453	3,725
AH-8 @5'	07/08/20	5 ft	Grab	soil	-	-	-	-	-	187	2,340	10,800	13,140	1,510	14,650
AH-8 @7'	07/08/20	7 ft	Grab	soil	-	-	-	-	-	-	312	745	1,057	139	1,196
AH-8 @8'	07/08/20	8 ft	Grab	soil	-	-	-	-	-	-	<28.4	253	253	50.9	303.9
NMOC Recommended Remediation Action Level					10	-	-	-	50	600	-	-	-	-	100

Exceeds NMOC Level

FIGURES

Figure 1
Site Location Map
Plains Pipeline L.P.
Ridge Nose Battery
PP-2083
GPS: 32.000269, -104.023384
Eddy County, New Mexico

Site Location

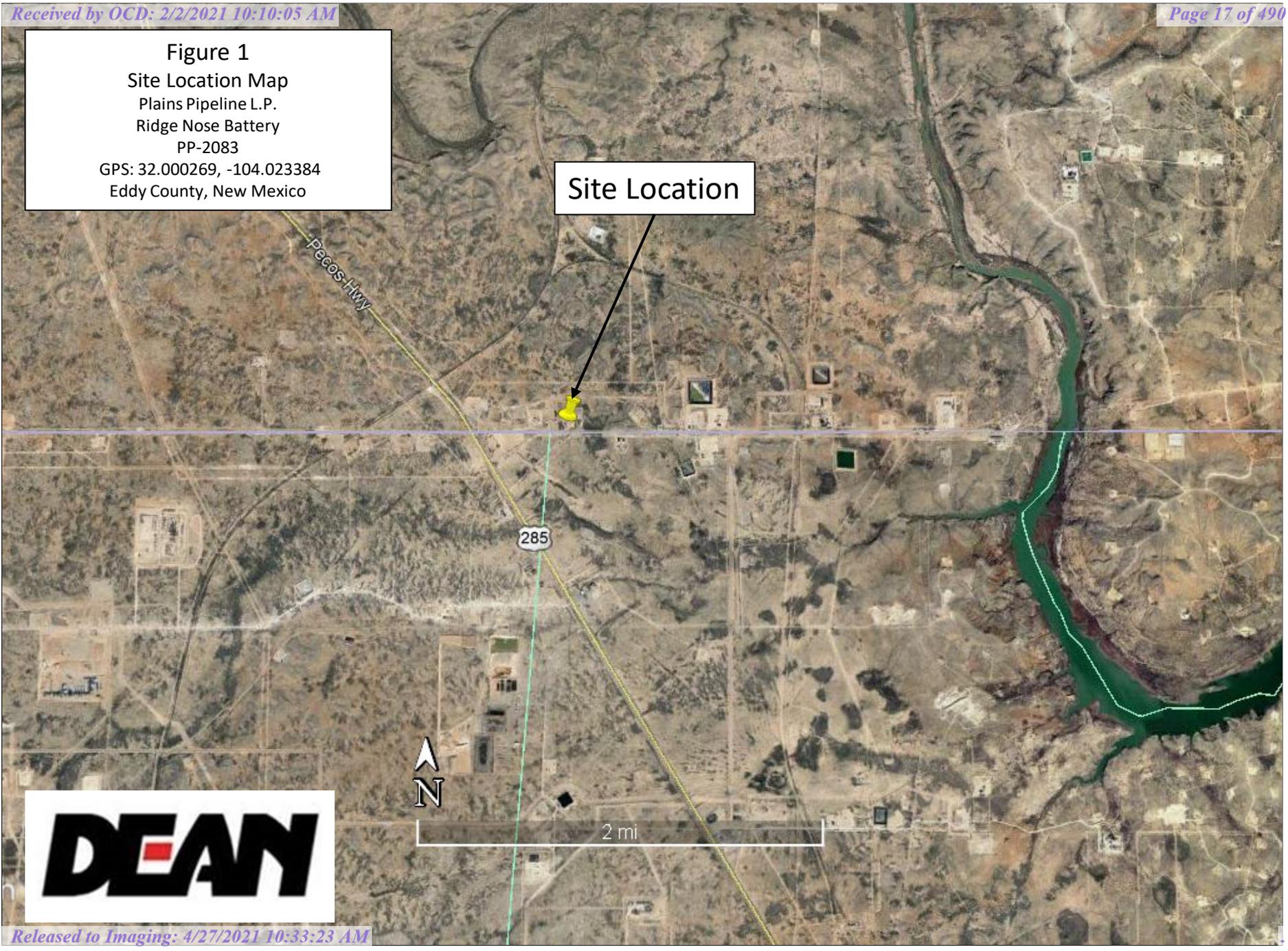
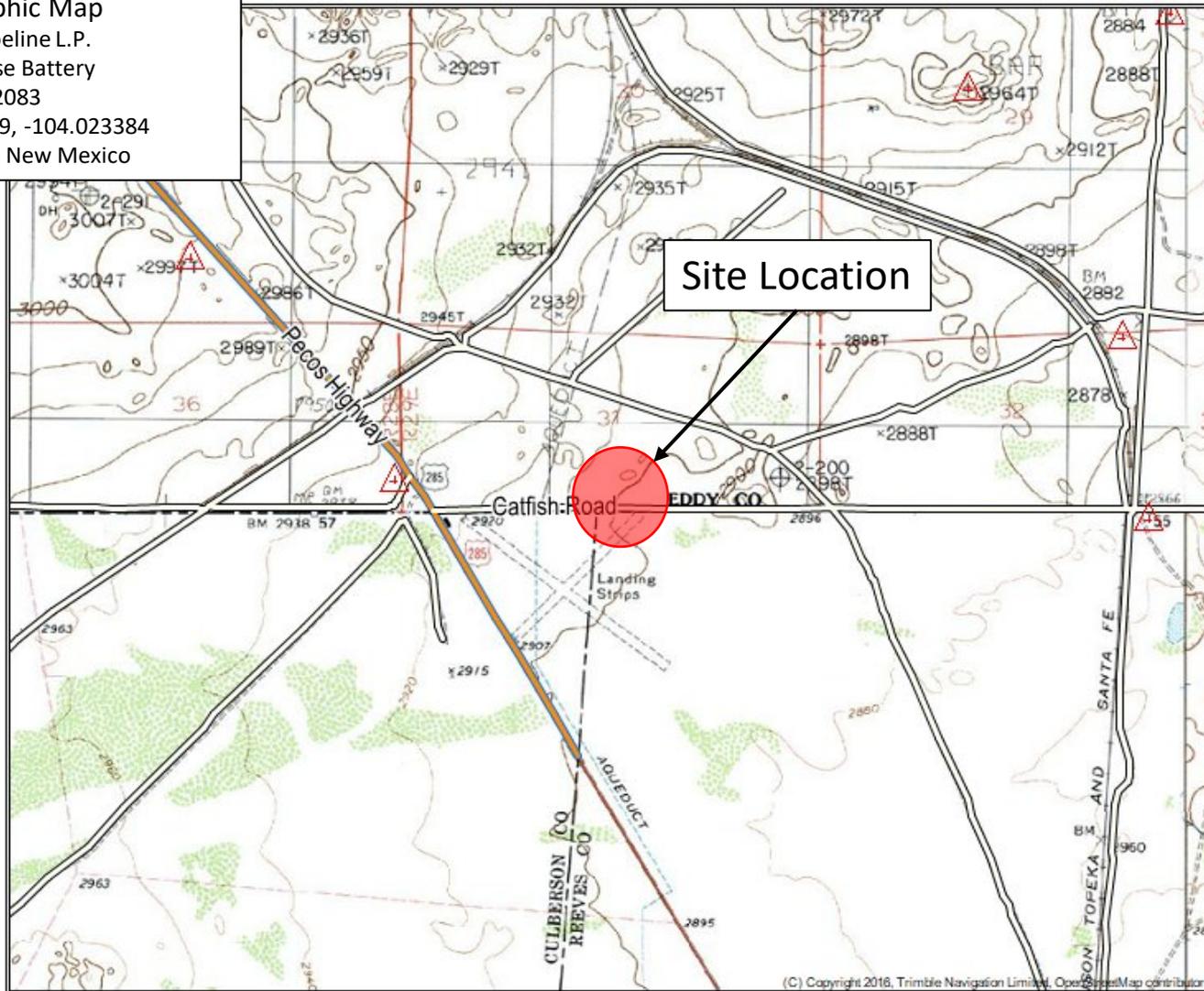


Figure 2

Topographic Map
Plains Pipeline L.P.
Ridge Nose Battery
PP-2083
GPS: 32.000269, -104.023384
Eddy County, New Mexico



(C) Copyright 2016, Trimble Navigation Limited, OpenStreetMap contributors

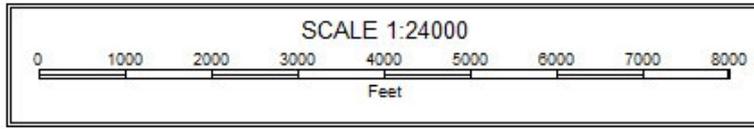
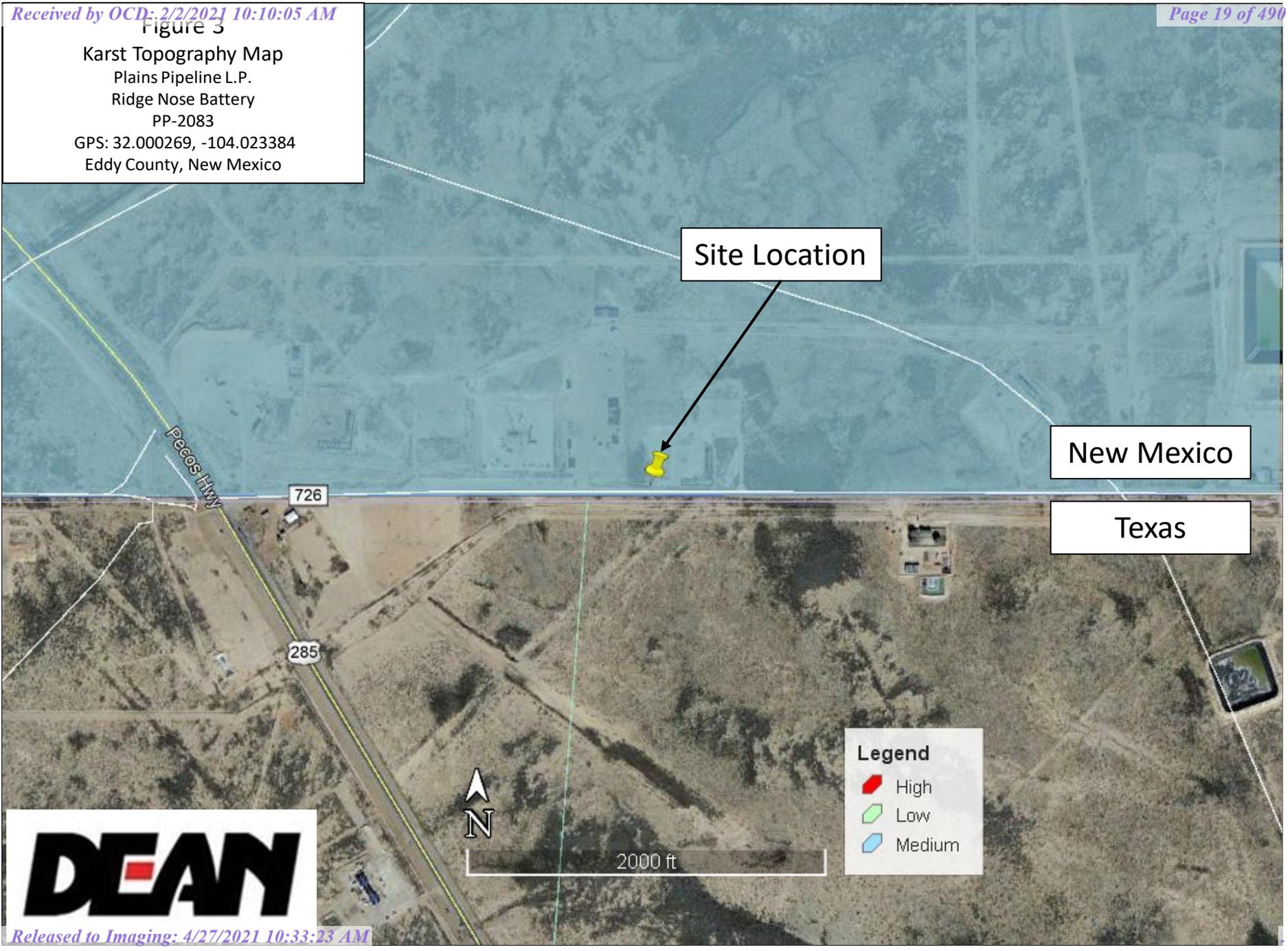


Figure 3

Karst Topography Map
Plains Pipeline L.P.
Ridge Nose Battery
PP-2083
GPS: 32.000269, -104.023384
Eddy County, New Mexico



Site Location

New Mexico

Texas

Legend

- High
- Low
- Medium



2000 ft



Figure 4

Initial Site Delineation Details and Confirmation Soil Sample Location Map

Map

Plains Pipeline L.P.
Ridge Nose Battery
PP-2083

GPS: 32.000269, -104.023384
Eddy County, New Mexico

Legend

Initial Release Area:



Sample Point:

0



Figure 5

Site Details and Bottom Hole Sample Location Map

Plains Pipeline L.P.

Ridge Nose Battery

PP-2083

GPS: 32.000269, -104.023384

Eddy County, New Mexico

Legend

Excavation Area:



Side Wall Sample Point:



Deeper Excavations

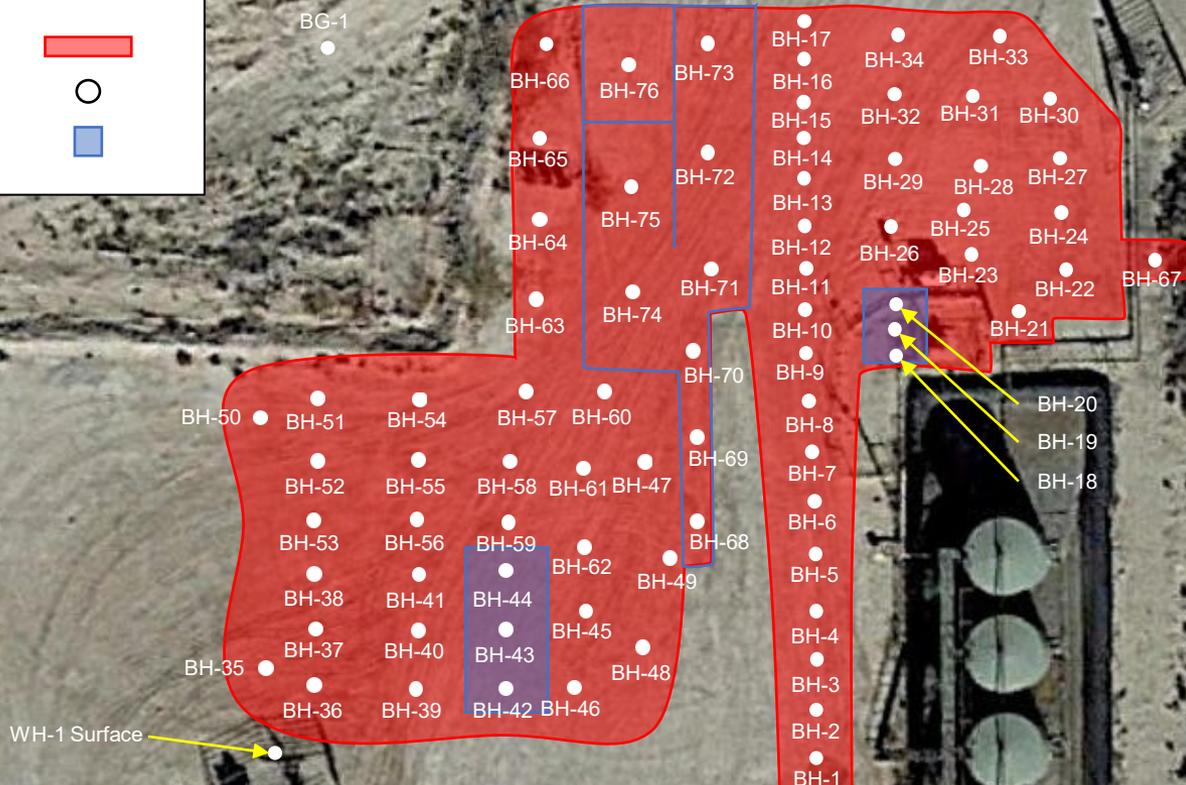


Figure 6
Site Details and Wall Sample Location Map
 Plains Pipeline L.P.
 Ridge Nose Battery
 PP-2083
 GPS: 32.000269, -104.023384
 Eddy County, New Mexico

Legend

- Excavation Area: 
- Side Wall Sample Point: 
- Deeper Excavations: 

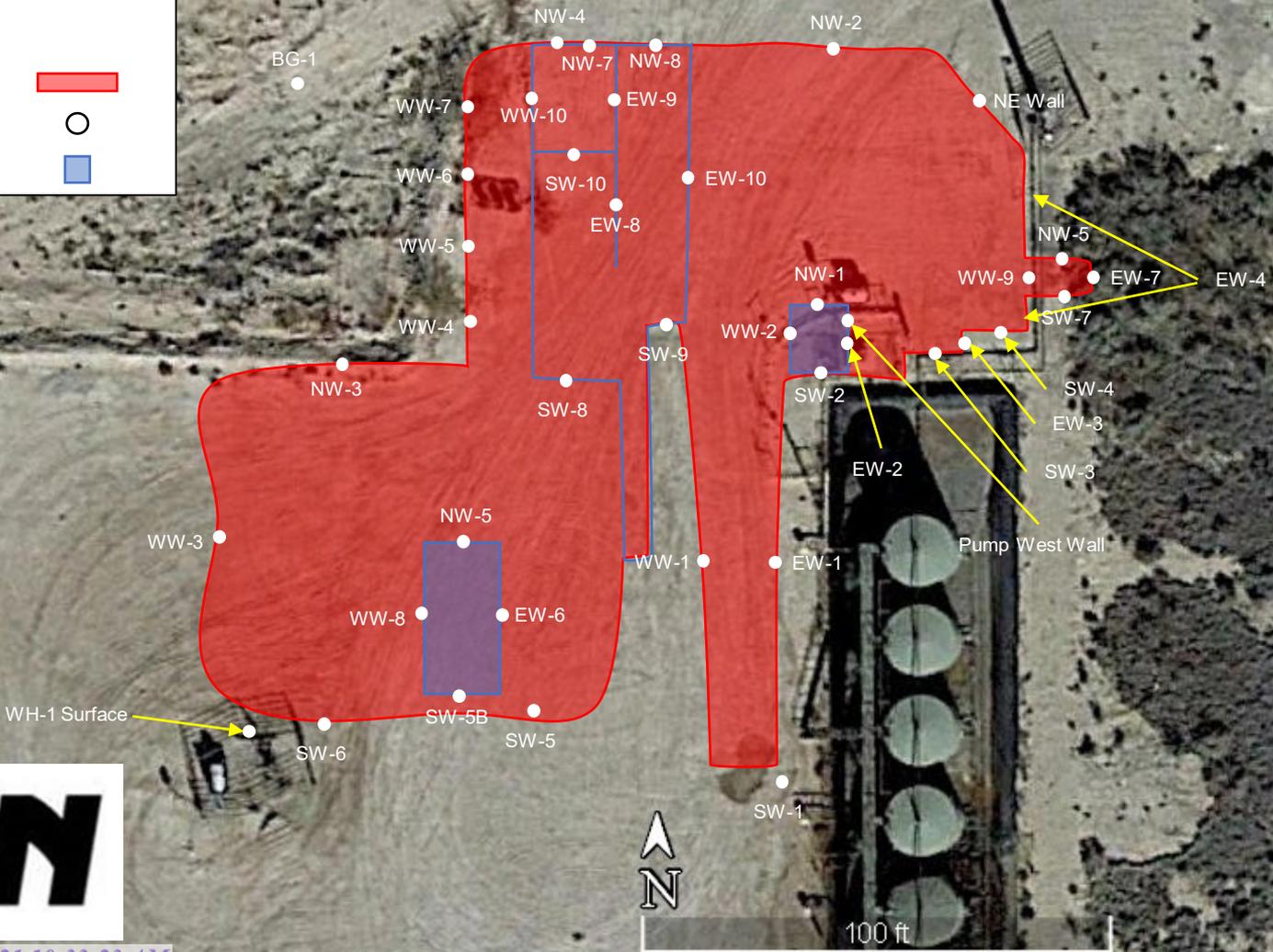


Figure 7

Site Details and Wall Hole Sample Location Map Cont.

Pump Area

Plains Pipeline L.P.

Ridge Nose Battery

PP-2083

GPS: 32.000269, -104.023384

Eddy County, New Mexico

Legend

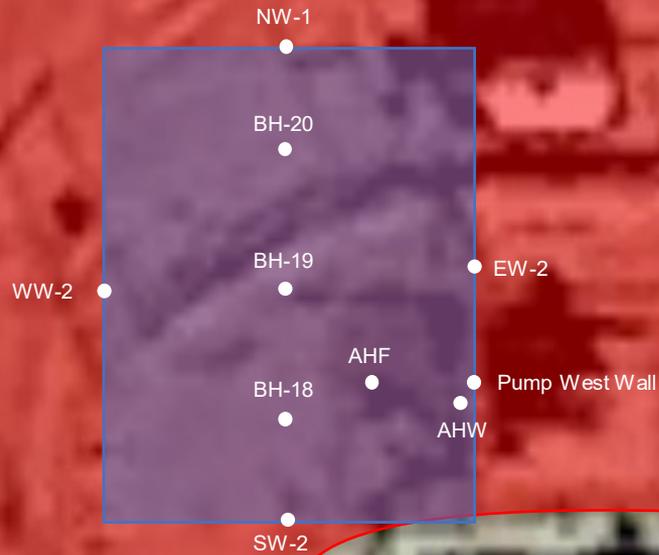
Excavation Area:



Side Wall Sample Point:



Deeper Excavations



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	NRM2019635761
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 577 US HWY 385 N Seminole, TX 79360	

Location of Release Source

Latitude 32.000269

Longitude -104.023384

(NAD 83 in decimal degrees to 5 decimal places)

Site Name COG Ridgenose Federal Com #1H	Site Type LACT Unit
Date Release Discovered 7/03/2020 @ 7:45 AM	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	31	26S	29E	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) 90 bbls	Volume Recovered (bbls) 80 bbls
<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
Valve pressured off of a nipple on the LACT Unit

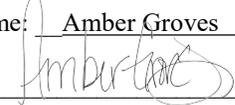
State of New Mexico
Oil Conservation Division

Incident ID	NRM2019635761
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? E-mail to Jim Griswold, Mike Bratcher, Robert Hamlet and Victoria Venegas @ 1:25 PM on 7/3/2020	

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>7/7/2020</u> email: <u>algroves@paalp.com</u> Telephone: <u>(575)200-5517</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>7/14/2020</u>

NRM2019635761

Amber L Groves

From: Tommy J Bacon
Sent: Monday, July 6, 2020 7:26 PM
To: Amber L Groves
Subject: Spill Calculations for Ridge Nose

Calculations for release.

60'X71'X1'X 0.0154= 65 barrels
48'X64'X .5"X 0.0154 = 23 barrels
8'X40'X .5"X 0.0154= 2 barrels

Total 90 barrels.

Tommy Bacon
District Manager
Southwest Division PPW
575-200-8025
tjbacon@paalp.com

APPENDIX B
NMOSE WATER COLUMN AVERAGE DEPTH



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02160 S7	3	3	1	22	26S	28E	586638	3543998*

Driller License:	Driller Company:		
Driller Name: HEMLER			
Drill Start Date:	Drill Finish Date: 01/01/1961	Plug Date:	
Log File Date:	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	Depth Well: 300 feet	Depth Water: 120 feet	

*UTM location was derived from PLSS - see Help

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.

1/13/21 12:44 PM

POINT OF DIVERSION SUMMARY



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
C_04022_POD2		CUB	ED	2	2	2	27	26S	28E	588106	3543082	250	145	105

Average Depth to Water: **145 feet**

Minimum Depth: **145 feet**

Maximum Depth: **145 feet**

Record Count: 1

PLSS Search:

Section(s): 27

Township: 26S

Range: 28E

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.

7/29/20 3:29 PM

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:

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

Project: Plains Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G13005



NELAP/TCEQ # T104704516-17-8

Report Date: 07/28/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 1'	0G13005-01	Soil	07/08/20 09:15	07-13-2020 13:00
AH-1 @ 3'	0G13005-02	Soil	07/08/20 09:25	07-13-2020 13:00
AH-1 @ 5'	0G13005-03	Soil	07/08/20 15:15	07-13-2020 13:00
AH-1 @ 7'	0G13005-04	Soil	07/08/20 15:30	07-13-2020 13:00
AH-2 @ 1'	0G13005-05	Soil	07/08/20 10:38	07-13-2020 13:00
AH-2 @ 3'	0G13005-06	Soil	07/08/20 10:45	07-13-2020 13:00
AH-3 @ 1'	0G13005-07	Soil	07/08/20 10:55	07-13-2020 13:00
AH-3 @ 3'	0G13005-08	Soil	07/08/20 11:00	07-13-2020 13:00
AH-4 @ 1'	0G13005-10	Soil	07/08/20 10:20	07-13-2020 13:00
AH-4 @ 3'	0G13005-11	Soil	07/08/20 11:28	07-13-2020 13:00
AH-5 @ 1'	0G13005-12	Soil	07/08/20 10:55	07-13-2020 13:00
AH-5 @ 3'	0G13005-13	Soil	07/08/20 11:05	07-13-2020 13:00
AH-5 @ 5'	0G13005-14	Soil	07/08/20 11:08	07-13-2020 13:00
AH-6 @ 1'	0G13005-15	Soil	07/08/20 11:15	07-13-2020 13:00
AH-6 @ 3'	0G13005-16	Soil	07/08/20 11:25	07-13-2020 13:00
AH-7 @ 1'	0G13005-17	Soil	07/08/20 11:35	07-13-2020 13:00
AH-7 @ 3'	0G13005-18	Soil	07/08/20 11:45	07-13-2020 13:00
AH-7 @ 5'	0G13005-19	Soil	07/08/20 11:55	07-13-2020 13:00
AH-7 @ 7'	0G13005-20	Soil	07/08/20 13:15	07-13-2020 13:00
AH-8 @ 1'	0G13005-21	Soil	07/08/20 13:25	07-13-2020 13:00
AH-8 @ 3'	0G13005-22	Soil	07/08/20 13:35	07-13-2020 13:00
AH-8 @ 5'	0G13005-23	Soil	07/08/20 13:45	07-13-2020 13:00
AH-8 @ 7'	0G13005-24	Soil	07/08/20 13:55	07-13-2020 13:00
AH-8 @ 8'	0G13005-25	Soil	07/08/20 14:00	07-13-2020 13:00

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-1 @ 1'
0G13005-01 (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	POG1301	07/13/20	07/13/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	POG1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	0.00307	0.00200	mg/kg dry	1	POG1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	POG1301	07/13/20	07/13/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.4 %	75-125		POG1301	07/13/20	07/13/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.1 %	75-125		POG1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7070	5.43	mg/kg dry	5	POG1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	POG1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POG1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	97.1	27.2	mg/kg dry	1	POG1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POG1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %	70-130		POG1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		112 %	70-130		POG1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	97.1	27.2	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-1 @ 3'
0G13005-02 (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

Chloride	4030	5.49	mg/kg dry	5	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-1 @ 5'
0G13005-03 (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

Chloride	1110	1.09	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-1 @ 7'
0G13005-04 (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

Chloride	2080	5.56	mg/kg dry	5	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-2 @ 1'
0G13005-05 (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	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.7 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1230	1.08	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	86.5	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		67.1 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	S-GC
Surrogate: o-Terphenyl		72.1 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	86.5	26.9	mg/kg dry	1	[CALC]	07/14/20	07/15/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-2 @ 3'
0G13005-06 (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

Chloride	299	1.08	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-3 @ 1'
0G13005-07 (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	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	62.4	1.10	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	87.7	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		81.9 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: o-Terphenyl		88.1 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	87.7	27.5	mg/kg dry	1	[CALC]	07/14/20	07/15/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-3 @ 3'
0G13005-08 (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

Chloride	51.3	1.09	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G1407	07/14/20	07/14/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-4 @ 1'
0G13005-10 (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	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	0.00657	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.7 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.6 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	128	1.10	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	205	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	30.5	27.5	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		71.0 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		75.1 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	236	27.5	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-4 @ 3'
0G13005-11 (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

Chloride	176	1.18	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C12-C28	90.4	29.4	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	90.4	29.4	mg/kg dry	1	[CALC]	07/16/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-5 @ 1'
0G13005-12 (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	0.00530	0.00100	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	0.0568	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	0.108	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	0.361	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	0.158	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		60.1 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		95.8 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	54.3	1.08	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1050	269	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	7850	269	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	808	269	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		87.0 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9700	269	mg/kg dry	10	[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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-5 @ 3'
0G13005-13 (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

Chloride	59.7	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	134	28.7	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		70.3 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: o-Terphenyl		72.9 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	134	28.7	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-5 @ 5'
0G13005-14 (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

Chloride	112	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0G1602	07/16/20	07/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/16/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-6 @ 1'
0G13005-15 (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	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.8 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0G1301	07/13/20	07/13/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	926	1.08	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	102	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: 1-Chlorooctane		73.9 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Surrogate: o-Terphenyl		76.9 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	102	26.9	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-6 @ 3'
0G13005-16 (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

Chloride	100	1.10	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0G1602	07/16/20	07/27/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P0G1602	07/16/20	07/27/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/16/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-7 @ 1'
OG13005-17 (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	0.470	0.0200	mg/kg dry	20	P0G1301	07/13/20	07/14/20	EPA 8021B	
Toluene	3.27	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/14/20	EPA 8021B	
Ethylbenzene	5.54	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/14/20	EPA 8021B	
Xylene (p/m)	17.3	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/14/20	EPA 8021B	
Xylene (o)	6.10	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/14/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %		75-125	P0G1301	07/13/20	07/14/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		90.1 %		75-125	P0G1301	07/13/20	07/14/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	66.3	1.11	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	5500	278	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	22600	278	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	2630	278	mg/kg dry	10	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.2 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		99.2 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	30800	278	mg/kg dry	10	[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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-7 @ 3'
0G13005-18 (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

Chloride	66.7	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	6580	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	24200	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	3450	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.0 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.9 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	34200	144	mg/kg dry	5	[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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-7 @ 5'
0G13005-19 (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

Chloride	66.0	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	6000	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	26300	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	3860	144	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.3 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		93.9 %		70-130	P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	36200	144	mg/kg dry	5	[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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-7 @ 7'
0G13005-20 (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	14.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	47.5	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C12-C28	528	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C28-C35	96.5	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		85.9 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.9 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	672	29.1	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AH-8 @ 1'
0G13005-21 (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	0.0390	0.00100	mg/kg dry	1	P0G1408	07/14/20	07/14/20	EPA 8021B	
Toluene	0.202	0.00100	mg/kg dry	1	P0G1408	07/14/20	07/14/20	EPA 8021B	
Ethylbenzene	0.236	0.00100	mg/kg dry	1	P0G1408	07/14/20	07/14/20	EPA 8021B	
Xylene (p/m)	0.618	0.00200	mg/kg dry	1	P0G1408	07/14/20	07/14/20	EPA 8021B	
Xylene (o)	0.239	0.00100	mg/kg dry	1	P0G1408	07/14/20	07/14/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75-125		P0G1408	07/14/20	07/14/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.9 %	75-125		P0G1408	07/14/20	07/14/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	495	1.08	mg/kg dry	1	P0G1503	07/15/20	07/15/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2620	134	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C12-C28	16100	134	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
>C28-C35	2090	134	mg/kg dry	5	P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		79.2 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		91.0 %	70-130		P0G1406	07/14/20	07/15/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	20800	134	mg/kg dry	5	[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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-8 @ 3'
0G13005-22 (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

Chloride	274	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	282	28.7	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C12-C28	2990	28.7	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C28-C35	453	28.7	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		107 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3720	28.7	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-8 @ 5'
0G13005-23 (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

Chloride	187	1.15	mg/kg dry	1	P0G2601	07/26/20	07/26/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2340	144	mg/kg dry	5	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C12-C28	10800	144	mg/kg dry	5	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C28-C35	1510	144	mg/kg dry	5	P0G1602	07/16/20	07/27/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		119 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		148 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	14600	144	mg/kg dry	5	[CALC]	07/16/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-8 @ 7'
0G13005-24 (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	13.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	312	144	mg/kg dry	5	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C12-C28	745	28.7	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
>C28-C35	139	28.7	mg/kg dry	1	P0G1602	07/16/20	07/27/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		131 %		70-130	P0G1602	07/16/20	07/27/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1200	144	mg/kg dry	5	[CALC]	07/16/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AH-8 @ 8'
0G13005-25 (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

% Moisture	12.0	0.1	%	1	P0G1407	07/14/20	07/14/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2101	07/21/20	07/27/20	TPH 8015M	
>C12-C28	253	28.4	mg/kg dry	1	P0G2101	07/21/20	07/27/20	TPH 8015M	
>C28-C35	50.9	28.4	mg/kg dry	1	P0G2101	07/21/20	07/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %		70-130	P0G2101	07/21/20	07/27/20	TPH 8015M	
Surrogate: o-Terphenyl		134 %		70-130	P0G2101	07/21/20	07/27/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	304	28.4	mg/kg dry	1	[CALC]	07/21/20	07/27/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1301 - General Preparation (GC)**Blank (P0G1301-BLK1)**

Prepared & Analyzed: 07/13/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00200	"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	75-125			

LCS (P0G1301-BS1)

Prepared & Analyzed: 07/13/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.102	0.00200	"	0.100		102	80-120			
Ethylbenzene	0.109	0.00200	"	0.100		109	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00200	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			

Calibration Blank (P0G1301-CCB1)

Prepared & Analyzed: 07/13/20

Benzene	0.330		mg/kg wet							
Toluene	0.930		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	0.860		"							
Xylene (o)	0.350		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	75-125			

Calibration Blank (P0G1301-CCB2)

Prepared & Analyzed: 07/13/20

Benzene	0.00		mg/kg wet							
Toluene	0.670		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.800		"							
Xylene (o)	0.430		"							
Surrogate: 4-Bromofluorobenzene	0.0983		"	0.120		81.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	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 Ridge Nose
Project Number: PP-2083
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 P0G1301 - General Preparation (GC)**Calibration Check (P0G1301-CCV1)**

Prepared & Analyzed: 07/13/20

Benzene	0.0987	0.00100	mg/kg wet	0.100		98.7	80-120			
Toluene	0.0925	0.00200	"	0.100		92.5	80-120			
Ethylbenzene	0.0971	0.00200	"	0.100		97.1	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0932	0.00200	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			

Calibration Check (P0G1301-CCV2)

Prepared & Analyzed: 07/13/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.0960	0.00200	"	0.100		96.0	80-120			
Ethylbenzene	0.100	0.00200	"	0.100		100	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.0973	0.00200	"	0.100		97.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			

Calibration Check (P0G1301-CCV3)

Prepared: 07/13/20 Analyzed: 07/14/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.105	0.00200	"	0.100		105	80-120			
Ethylbenzene	0.109	0.00200	"	0.100		109	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		109	80-120			
Xylene (o)	0.107	0.00200	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125			

Matrix Spike (P0G1301-MS1)

Source: 0G13005-01

Prepared: 07/13/20 Analyzed: 07/14/20

Benzene	0.0869	0.00100	mg/kg dry	0.109	ND	80.0	80-120			QM-07
Toluene	0.0686	0.00200	"	0.109	0.000511	62.6	80-120			QM-07
Ethylbenzene	0.0523	0.00200	"	0.109	0.000620	47.5	80-120			QM-07
Xylene (p/m)	0.150	0.00200	"	0.217	0.00307	67.5	80-120			QM-07
Xylene (o)	0.0718	0.00200	"	0.109	0.000707	65.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.122		"	0.130		93.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.130		97.0	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 Ridge Nose
Project Number: PP-2083
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 P0G1301 - General Preparation (GC)**Matrix Spike Dup (P0G1301-MSD1)**

Source: 0G13005-01

Prepared: 07/13/20 Analyzed: 07/14/20

Benzene	0.0825	0.00100	mg/kg dry	0.109	ND	75.9	80-120	5.24	20	QM-07
Toluene	0.0611	0.00200	"	0.109	0.000511	55.7	80-120	11.6	20	QM-07
Ethylbenzene	0.0502	0.00200	"	0.109	0.000620	45.6	80-120	4.17	20	QM-07
Xylene (p/m)	0.150	0.00200	"	0.217	0.00307	67.7	80-120	0.289	20	QM-07
Xylene (o)	0.0684	0.00200	"	0.109	0.000707	62.2	80-120	4.90	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.125		"	0.130		96.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.130		96.2	75-125			

Batch P0G1408 - General Preparation (GC)**Blank (P0G1408-BLK1)**

Prepared & Analyzed: 07/14/20

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	0.107		"	0.120		89.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.7	75-125			

LCS (P0G1408-BS1)

Prepared & Analyzed: 07/14/20

Benzene	0.0977	0.00100	mg/kg wet	0.100		97.7	80-120			
Toluene	0.0952	0.00100	"	0.100		95.2	80-120			
Ethylbenzene	0.0987	0.00100	"	0.100		98.7	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.1	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 Ridge Nose
Project Number: PP-2083
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 P0G1408 - General Preparation (GC)**LCS Dup (P0G1408-BSD1)**

Prepared & Analyzed: 07/14/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120	8.85	20	
Toluene	0.109	0.00100	"	0.100		109	80-120	13.2	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	6.54	20	
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120	11.0	20	
Xylene (o)	0.110	0.00100	"	0.100		110	80-120	12.0	20	
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	75-125			

Calibration Blank (P0G1408-CCB1)

Prepared & Analyzed: 07/14/20

Benzene	0.00		mg/kg wet							
Toluene	0.910		"							
Ethylbenzene	0.420		"							
Xylene (p/m)	0.800		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	75-125			

Calibration Blank (P0G1408-CCB2)

Prepared & Analyzed: 07/14/20

Benzene	0.00		mg/kg wet							
Toluene	0.710		"							
Ethylbenzene	0.610		"							
Xylene (p/m)	1.31		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.3	75-125			

Calibration Check (P0G1408-CCV1)

Prepared & Analyzed: 07/14/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		116	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	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 Ridge Nose
Project Number: PP-2083
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 P0G1408 - General Preparation (GC)**Calibration Check (P0G1408-CCV2)**

Prepared & Analyzed: 07/14/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		115	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			

Calibration Check (P0G1408-CCV3)

Prepared & Analyzed: 07/14/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.221	0.00200	"	0.200		111	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			

Matrix Spike (P0G1408-MS1)

Source: 0G14001-01

Prepared & Analyzed: 07/14/20

Benzene	0.0717	0.00100	mg/kg dry	0.101	0.00100	70.0	80-120			QM-07
Toluene	0.0650	0.00100	"	0.101	0.00352	60.9	80-120			QM-07
Ethylbenzene	0.0702	0.00100	"	0.101	0.000899	68.6	80-120			QM-07
Xylene (p/m)	0.116	0.00200	"	0.202	0.00264	55.9	80-120			QM-07
Xylene (o)	0.0529	0.00100	"	0.101	ND	52.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.108		"	0.121		88.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.121		97.3	75-125			

Matrix Spike Dup (P0G1408-MSD1)

Source: 0G14001-01

Prepared & Analyzed: 07/14/20

Benzene	0.0877	0.00100	mg/kg dry	0.101	0.00100	85.8	80-120	20.4	20	QM-07
Toluene	0.0754	0.00100	"	0.101	0.00352	71.2	80-120	15.6	20	QM-07
Ethylbenzene	0.0848	0.00100	"	0.101	0.000899	83.1	80-120	19.1	20	
Xylene (p/m)	0.141	0.00200	"	0.202	0.00264	68.7	80-120	20.5	20	QM-07
Xylene (o)	0.0644	0.00100	"	0.101	ND	63.7	80-120	19.5	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.115		"	0.121		94.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.121		97.3	75-125			

Permian Basin Environmental Lab, L.P.

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

Page 31 of 43

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1407 - * DEFAULT PREP *****

Blank (P0G1407-BLK1) Prepared & Analyzed: 07/14/20

% Moisture	ND	0.1	%							
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Blank (P0G1407-BLK2) Prepared & Analyzed: 07/14/20

% Moisture	ND	0.1	%							
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Duplicate (P0G1407-DUP1) Source: 0G13005-10 Prepared & Analyzed: 07/14/20

% Moisture	9.0	0.1	%		9.0			0.00	20	
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Duplicate (P0G1407-DUP2) Source: 0G13005-20 Prepared & Analyzed: 07/14/20

% Moisture	15.0	0.1	%		14.0			6.90	20	
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Batch P0G1503 - * DEFAULT PREP *****

Blank (P0G1503-BLK1) Prepared: 07/15/20 Analyzed: 07/16/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0G1503-BS1) Prepared & Analyzed: 07/15/20

Chloride	402	1.00	mg/kg wet	400		100	80-120			
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LCS Dup (P0G1503-BSD1) Prepared & Analyzed: 07/15/20

Chloride	400	1.00	mg/kg wet	400		99.9	80-120	0.469	20	
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Calibration Blank (P0G1503-CCB2) Prepared: 07/15/20 Analyzed: 07/16/20

Chloride	0.00		mg/kg wet							
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Calibration Blank (P0G1503-CCB3) Prepared: 07/15/20 Analyzed: 07/16/20

Chloride	0.00		mg/kg wet							
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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1503 - *** DEFAULT PREP ***										
Calibration Check (P0G1503-CCV1)				Prepared & Analyzed: 07/15/20						
Chloride	19.8		mg/kg	20.0		99.1	0-200			
Calibration Check (P0G1503-CCV2)				Prepared & Analyzed: 07/15/20						
Chloride	19.8		mg/kg	20.0		99.2	0-200			
Calibration Check (P0G1503-CCV3)				Prepared & Analyzed: 07/15/20						
Chloride	20.7		mg/kg	20.0		104	0-200			
Matrix Spike (P0G1503-MS1)				Source: 0G09010-07		Prepared & Analyzed: 07/15/20				
Chloride	2750	11.4	mg/kg dry	1140	1560	104	80-120			
Matrix Spike (P0G1503-MS2)				Source: 0G13005-05		Prepared & Analyzed: 07/15/20				
Chloride	1690	1.08	mg/kg dry	538	1230	85.8	80-120			
Matrix Spike Dup (P0G1503-MSD1)				Source: 0G09010-07		Prepared & Analyzed: 07/15/20				
Chloride	2770	11.4	mg/kg dry	1140	1560	106	80-120	0.775	20	
Matrix Spike Dup (P0G1503-MSD2)				Source: 0G13005-05		Prepared & Analyzed: 07/15/20				
Chloride	1720	1.08	mg/kg dry	538	1230	92.1	80-120	2.00	20	
Batch P0G2601 - *** DEFAULT PREP ***										
LCS (P0G2601-BS1)				Prepared & Analyzed: 07/26/20						
Chloride	393	1.00	mg/kg wet	400		98.3	80-120			
LCS Dup (P0G2601-BSD1)				Prepared & Analyzed: 07/26/20						
Chloride	400	1.00	mg/kg wet	400		99.9	80-120	1.65	20	

Permian Basin Environmental Lab, L.P.

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Dean
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Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2601 - *** DEFAULT PREP ***										
Calibration Check (P0G2601-CCV1)				Prepared & Analyzed: 07/26/20						
Chloride	19.5		mg/kg	20.0		97.3	0-200			
Calibration Check (P0G2601-CCV2)				Prepared & Analyzed: 07/26/20						
Chloride	19.4		mg/kg	20.0		97.2	0-200			
Calibration Check (P0G2601-CCV3)				Prepared & Analyzed: 07/26/20						
Chloride	19.1		mg/kg	20.0		95.7	0-200			
Matrix Spike (P0G2601-MS1)		Source: 0G13005-04		Prepared & Analyzed: 07/26/20						
Chloride	2630	5.56	mg/kg dry	556	2080	99.2	80-120			
Matrix Spike (P0G2601-MS2)		Source: 0G13005-20		Prepared & Analyzed: 07/26/20						
Chloride	696	5.81	mg/kg dry	581	63.1	109	80-120			
Matrix Spike Dup (P0G2601-MSD1)		Source: 0G13005-04		Prepared & Analyzed: 07/26/20						
Chloride	2580	5.56	mg/kg dry	556	2080	89.7	80-120	2.02	20	
Matrix Spike Dup (P0G2601-MSD2)		Source: 0G13005-20		Prepared & Analyzed: 07/26/20						
Chloride	640	5.81	mg/kg dry	581	63.1	99.2	80-120	8.34	20	

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1406 - TX 1005

Blank (P0G1406-BLK1)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	76.5		"	100		76.5	70-130			
Surrogate: o-Terphenyl	38.0		"	50.0		76.1	70-130			

LCS (P0G1406-BS1)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	974	25.0	mg/kg wet	1000		97.4	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	90.8		"	100		90.8	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.4	70-130			

LCS Dup (P0G1406-BSD1)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	955	25.0	mg/kg wet	1000		95.5	75-125	1.95	20	
>C12-C28	1090	25.0	"	1000		109	75-125	1.63	20	
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	70-130			
Surrogate: o-Terphenyl	34.0		"	50.0		68.1	70-130			S-GC

Calibration Check (P0G1406-CCV1)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	475	25.0	mg/kg wet	500		95.0	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	76.2		"	100		76.2	70-130			
Surrogate: o-Terphenyl	33.2		"	50.0		66.4	70-130			S-GC

Calibration Check (P0G1406-CCV2)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	475	25.0	mg/kg wet	500		95.0	85-115			
>C12-C28	496	25.0	"	500		99.3	85-115			
Surrogate: 1-Chlorooctane	76.6		"	100		76.6	70-130			
Surrogate: o-Terphenyl	32.9		"	50.0		65.8	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 Ridge Nose
Project Number: PP-2083
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 P0G1406 - TX 1005**Calibration Check (P0G1406-CCV3)**

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	462	25.0	mg/kg wet	500		92.4	85-115			
>C12-C28	483	25.0	"	500		96.5	85-115			
Surrogate: 1-Chlorooctane	74.0		"	100		74.0	70-130			
Surrogate: o-Terphenyl	32.5		"	50.0		65.0	70-130			S-GC

Matrix Spike (P0G1406-MS1)

Source: 0G13005-01

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	1100	27.2	mg/kg dry	1090	11.6	100	75-125			
>C12-C28	1300	27.2	"	1090	97.1	111	75-125			
Surrogate: 1-Chlorooctane	99.3		"	109		91.4	70-130			
Surrogate: o-Terphenyl	43.6		"	54.3		80.3	70-130			

Matrix Spike Dup (P0G1406-MSD1)

Source: 0G13005-01

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	1080	27.2	mg/kg dry	1090	11.6	98.6	75-125	1.83	20	
>C12-C28	1280	27.2	"	1090	97.1	109	75-125	1.45	20	
Surrogate: 1-Chlorooctane	97.5		"	109		89.7	70-130			
Surrogate: o-Terphenyl	40.7		"	54.3		74.9	70-130			

Batch P0G1411 - TX 1005**Blank (P0G1411-BLK1)**

Prepared & 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	90.0		"	100		90.0	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.9	70-130			

LCS (P0G1411-BS1)

Prepared & Analyzed: 07/14/20

C6-C12	934	25.0	mg/kg wet	1000		93.4	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	77.6		"	100		77.6	70-130			
Surrogate: o-Terphenyl	36.8		"	50.0		73.6	70-130			

Permian Basin Environmental Lab, L.P.

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

Page 36 of 43

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1411 - TX 1005**LCS Dup (P0G1411-BSD1)**

Prepared & Analyzed: 07/14/20

C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	8.22	20	
>C12-C28	1180	25.0	"	1000		118	75-125	11.4	20	
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			

Calibration Check (P0G1411-CCV1)

Prepared & Analyzed: 07/14/20

C6-C12	487	25.0	mg/kg wet	500		97.4	85-115			
>C12-C28	519	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	75.7		"	100		75.7	70-130			
Surrogate: o-Terphenyl	37.6		"	50.0		75.2	70-130			

Calibration Check (P0G1411-CCV2)

Prepared & Analyzed: 07/14/20

C6-C12	514	25.0	mg/kg wet	500		103	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			

Calibration Check (P0G1411-CCV3)

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	521	25.0	mg/kg wet	500		104	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	88.6		"	100		88.6	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.9	70-130			

Matrix Spike (P0G1411-MS1)

Source: 0G14001-04

Prepared: 07/14/20 Analyzed: 07/15/20

C6-C12	1150	25.3	mg/kg dry	1010	15.0	112	75-125			
>C12-C28	1250	25.3	"	1010	36.4	120	75-125			
Surrogate: 1-Chlorooctane	106		"	101		105	70-130			
Surrogate: o-Terphenyl	49.9		"	50.5		98.9	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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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 P0G1411 - TX 1005

Matrix Spike Dup (P0G1411-MSD1)

Source: 0G14001-04

Prepared: 07/14/20

Analyzed: 07/15/20

C6-C12	1220	25.3	mg/kg dry	1010	15.0	119	75-125	5.91	20	
>C12-C28	1350	25.3	"	1010	36.4	130	75-125	7.87	20	QM-05
Surrogate: 1-Chlorooctane	98.7		"	101		97.7	70-130			
Surrogate: o-Terphenyl	48.3		"	50.5		95.7	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 Ridge Nose
Project Number: PP-2083
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: 7/28/2020

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

3 of 3

Project Manager: J. E. Ferry Kindley

Company Name: Deans Service

Company Address: 12600 WCR 91

City/State/Zip: Midland, TX 79707

Telephone No: 432-230-0920

Sampler Signature: [Signature]

Fax No: [Blank]
e-mail: Sylvia Reynolds
J. E. Ferry Kindley
Engelbert Stuart
Kaylan Longe

Report Format: Standard TRRP NPDES

Project Name: Plains Ridge Nose

Project #: PP-2083

Project Loc: eddy Co, NM

PO #:

ORDER #: 0612005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	Matrix	TPH: TX 1005 TX 1006	Anions (Cl, SO ₄ , Alkalinity)	BTEX 8021B, 8030 or BTEX 8260	TPH 8015M Ext	Chlorides	
21	AH-8 @ 1 FT	1'	1'	07/08/20	0125		1	✓														
22	AH-8 @ 3 FT *	3'	3'	07/08/20	0135		1	✓														
23	AH-8 @ 5 FT *	5'	5'	07/08/20	0145		1	✓														
24	AH-8 @ 7 FT *	7'	7'	07/08/20	0155		1	✓														
25	AH-8 @ 8 FT *	8'	8'	07/08/20	0200		1	✓														

Special Instructions: IF benzene is 2 ppm or more of total BTEX is 25 ppm run next sample down. IF TPH is 2 100 ppm total run next sample down until below 100 ppm. IF chlorides are 2 600 ppm run next sample down.

Relinquished by: [Signature] Date: 01/31/12 Time: 0100 Received by: [Signature] Date: 7/8/20 Time: 1300

Relinquished by: [Signature] Date: 01/31/12 Time: 0100 Received by: [Signature] Date: 7/8/20 Time: 1300

Laboratory Comments: Sample collected in 100% VOCs Free of headspace

Check all that apply: Y Custody seals on containers Y Sample Hand Delivered Y by Sampler/Client Rep? Y by Counter? Y UPS Y DHT Y FedEx Y Lone Star Y

Temperature Upon Receipt: 43.8 °C Factor: 0.98

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G16002



NELAP/TCEQ # T104704516-17-8

Report Date: 07/24/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 3'	0G16002-01	Soil	07/14/20 10:52	07-15-2020 16:10
BH-2 @ 3'	0G16002-02	Soil	07/14/20 10:54	07-15-2020 16:10
BH-3 @ 3'	0G16002-03	Soil	07/14/20 11:21	07-15-2020 16:10
BH-4 @ 3'	0G16002-04	Soil	07/14/20 11:23	07-15-2020 16:10
BH-5 @ 3'	0G16002-05	Soil	07/14/20 11:25	07-15-2020 16:10
BH-6 @ 3'	0G16002-06	Soil	07/14/20 11:27	07-15-2020 16:10
BH-7 @ 3'	0G16002-07	Soil	07/14/20 11:29	07-15-2020 16:10
EW-1 @ 1.5'	0G16002-08	Soil	07/14/20 12:16	07-15-2020 16:10
SW-1 @ 1.5'	0G16002-09	Soil	07/14/20 12:00	07-15-2020 16:10
WW-1 @ 1.5'	0G16002-10	Soil	07/14/20 12:11	07-15-2020 16:10

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-1 @ 3'
0G16002-01 (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	POG1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	POG1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.6 %		75-125	POG1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %		75-125	POG1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	281	1.10	mg/kg dry	1	POG1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	POG1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POG1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POG1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POG1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.2 %		70-130	POG1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %		70-130	POG1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-2 @ 3'
0G16002-02 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.8 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.3 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	355	1.11	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.5 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-3 @ 3'
0G16002-03 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.3 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	123	1.10	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-4 @ 3'
0G16002-04 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.6 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	213	1.10	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-5 @ 3'
0G16002-05 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.5 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	167	1.11	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-6 @ 3'
0G16002-06 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.2 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	436	1.12	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-7 @ 3'
0G16002-07 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.6 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	424	1.11	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-1 @ 1.5'
0G16002-08 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	0.00107	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	0.00315	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.3 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.8 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	571	1.04	mg/kg dry	1	P0G1710	07/17/20	07/18/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-1 @ 1.5'
0G16002-09 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	600	5.21	mg/kg dry	5	P0G2013	07/20/20	07/20/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

WW-1 @ 1.5'
0G16002-10 (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	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	263	1.06	mg/kg dry	1	P0G2013	07/20/20	07/20/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.5 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0G1608	07/16/20	07/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/16/20	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 Ridge Nose
Project Number: PP-2083
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 P0G1603 - General Preparation (GC)**Blank (P0G1603-BLK1)**

Prepared & Analyzed: 07/16/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	75-125			

LCS (P0G1603-BS1)

Prepared & Analyzed: 07/16/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0956	0.00200	"	0.100		95.6	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)	0.0984	0.00100	"	0.100		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			

LCS Dup (P0G1603-BSD1)

Prepared & Analyzed: 07/16/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120	2.88	20	
Toluene	0.104	0.00200	"	0.100		104	80-120	8.74	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	0.0861	20	
Xylene (p/m)	0.232	0.00200	"	0.200		116	80-120	8.80	20	
Xylene (o)	0.108	0.00100	"	0.100		108	80-120	8.94	20	
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			

Calibration Blank (P0G1603-CCB1)

Prepared & Analyzed: 07/16/20

Benzene	0.00		mg/kg wet							
Toluene	1.39		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.780		"							
Xylene (o)	0.500		"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	75-125			

Permian Basin Environmental Lab, L.P.

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

Page 13 of 23

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1603 - General Preparation (GC)**Calibration Blank (P0G1603-CCB2)**

Prepared & Analyzed: 07/16/20

Benzene	0.310		mg/kg wet							
Toluene	0.920		"							
Ethylbenzene	0.590		"							
Xylene (p/m)	1.19		"							
Xylene (o)	0.510		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	75-125			

Calibration Check (P0G1603-CCV1)

Prepared & Analyzed: 07/16/20

Benzene	0.0983	0.00100	mg/kg wet	0.100		98.3	80-120			
Toluene	0.0951	0.00200	"	0.100		95.1	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			

Calibration Check (P0G1603-CCV2)

Prepared & Analyzed: 07/16/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.105	0.00200	"	0.100		105	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			

Calibration Check (P0G1603-CCV3)

Prepared & Analyzed: 07/16/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.103	0.00200	"	0.100		103	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

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Page 14 of 23

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0G1603 - General Preparation (GC)**Matrix Spike (P0G1603-MS1)**

Source: 0G16001-01

Prepared & Analyzed: 07/16/20

Benzene	0.0838	0.00100	mg/kg dry	0.102	ND	82.2	80-120			
Toluene	0.0828	0.00200	"	0.102	0.000551	80.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.102	ND	101	80-120			
Xylene (p/m)	0.176	0.00200	"	0.204	ND	86.3	80-120			
Xylene (o)	0.0840	0.00100	"	0.102	ND	82.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.122		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		98.1	75-125			

Matrix Spike Dup (P0G1603-MSD1)

Source: 0G16001-01

Prepared & Analyzed: 07/16/20

Benzene	0.0869	0.00100	mg/kg dry	0.102	ND	85.2	80-120	3.60	20	
Toluene	0.0850	0.00200	"	0.102	0.000551	82.7	80-120	2.57	20	
Ethylbenzene	0.104	0.00100	"	0.102	ND	102	80-120	0.711	20	
Xylene (p/m)	0.175	0.00200	"	0.204	ND	85.7	80-120	0.680	20	
Xylene (o)	0.0835	0.00100	"	0.102	ND	81.8	80-120	0.585	20	
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.8	75-125			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1703 - *** DEFAULT PREP ***										
Blank (P0G1703-BLK1) Prepared & Analyzed: 07/17/20										
% Moisture	ND	0.1	%							
Blank (P0G1703-BLK2) Prepared & Analyzed: 07/17/20										
% Moisture	ND	0.1	%							
Blank (P0G1703-BLK3) Prepared & Analyzed: 07/17/20										
% Moisture	ND	0.1	%							
Duplicate (P0G1703-DUP1) Source: 0G16002-09 Prepared & Analyzed: 07/17/20										
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0G1703-DUP2) Source: 0G16003-09 Prepared & Analyzed: 07/17/20										
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G1703-DUP3) Source: 0G16005-03 Prepared & Analyzed: 07/17/20										
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G1703-DUP4) Source: 0G16006-08 Prepared & Analyzed: 07/17/20										
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P0G1703-DUP5) Source: 0G16012-10 Prepared & Analyzed: 07/17/20										
% Moisture	8.0	0.1	%		9.0			11.8	20	
Batch P0G1710 - *** DEFAULT PREP ***										
LCS (P0G1710-BS1) Prepared & Analyzed: 07/17/20										
Chloride	396	1.00	mg/kg wet	400		99.0	80-120			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1710 - *** DEFAULT PREP ***										
LCS Dup (P0G1710-BSD1) Prepared & Analyzed: 07/17/20										
Chloride	404	1.00	mg/kg wet	400		101	80-120	1.96	20	
Calibration Check (P0G1710-CCV1) Prepared & Analyzed: 07/17/20										
Chloride	18.5		mg/kg	20.0		92.3	0-200			
Calibration Check (P0G1710-CCV2) Prepared: 07/17/20 Analyzed: 07/18/20										
Chloride	18.4		mg/kg	20.0		91.9	0-200			
Calibration Check (P0G1710-CCV3) Prepared: 07/17/20 Analyzed: 07/18/20										
Chloride	18.2		mg/kg	20.0		91.0	0-200			
Matrix Spike (P0G1710-MS1) Source: 0G15012-02 Prepared & Analyzed: 07/17/20										
Chloride	11000	29.1	mg/kg dry	2910	7860	107	80-120			
Matrix Spike (P0G1710-MS2) Source: 0G15015-02 Prepared: 07/17/20 Analyzed: 07/18/20										
Chloride	617	1.30	mg/kg dry	649	8.23	93.7	80-120			
Matrix Spike Dup (P0G1710-MSD1) Source: 0G15012-02 Prepared & Analyzed: 07/17/20										
Chloride	10900	29.1	mg/kg dry	2910	7860	106	80-120	0.348	20	
Matrix Spike Dup (P0G1710-MSD2) Source: 0G15015-02 Prepared: 07/17/20 Analyzed: 07/18/20										
Chloride	606	1.30	mg/kg dry	649	8.23	92.0	80-120	1.76	20	
Batch P0G2013 - *** DEFAULT PREP ***										
Blank (P0G2013-BLK1) Prepared & Analyzed: 07/20/20										
Chloride	ND	1.00	mg/kg wet							

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2013 - *** DEFAULT PREP ***										
LCS (P0G2013-BS1)				Prepared & Analyzed: 07/20/20						
Chloride	399	1.00	mg/kg wet	400		99.7	80-120			
LCS Dup (P0G2013-BSD1)				Prepared & Analyzed: 07/20/20						
Chloride	395	1.00	mg/kg wet	400		98.8	80-120	0.866	20	
Calibration Blank (P0G2013-CCB1)				Prepared & Analyzed: 07/20/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0G2013-CCB2)				Prepared & Analyzed: 07/20/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0G2013-CCV1)				Prepared & Analyzed: 07/20/20						
Chloride	19.0		mg/kg	20.0		94.9	0-200			
Calibration Check (P0G2013-CCV2)				Prepared & Analyzed: 07/20/20						
Chloride	18.8		mg/kg	20.0		93.8	0-200			
Calibration Check (P0G2013-CCV3)				Prepared & Analyzed: 07/20/20						
Chloride	18.5		mg/kg	20.0		92.7	0-200			
Matrix Spike (P0G2013-MS1)		Source: 0G16002-09		Prepared & Analyzed: 07/20/20						
Chloride	1080	5.21	mg/kg dry	521	600	91.6	80-120			
Matrix Spike (P0G2013-MS2)		Source: 0G16003-10		Prepared & Analyzed: 07/20/20						
Chloride	22900	53.8	mg/kg dry	5380	15600	136	80-120			QM-05
Matrix Spike Dup (P0G2013-MSD1)		Source: 0G16002-09		Prepared & Analyzed: 07/20/20						
Chloride	1060	5.21	mg/kg dry	521	600	87.9	80-120	1.82	20	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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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 P0G2013 - * DEFAULT PREP *****

Matrix Spike Dup (P0G2013-MSD2)	Source: 0G16003-10			Prepared & Analyzed: 07/20/20						
Chloride	21100	53.8	mg/kg dry	5380	15600	103	80-120	8.16	20	

Dean
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Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1608 - TX 1005										
Blank (P0G1608-BLK1)										
					Prepared: 07/16/20 Analyzed: 07/17/20					
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.4		"	100		98.4	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			
LCS (P0G1608-BS1)										
					Prepared: 07/16/20 Analyzed: 07/17/20					
C6-C12	987	25.0	mg/kg wet	1000		98.7	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.5	70-130			
LCS Dup (P0G1608-BSD1)										
					Prepared: 07/16/20 Analyzed: 07/17/20					
C6-C12	1150	25.0	mg/kg wet	1000		115	75-125	15.6	20	
>C12-C28	1240	25.0	"	1000		124	75-125	4.73	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			
Calibration Blank (P0G1608-CCB1)										
					Prepared & Analyzed: 07/16/20					
C6-C12	10.1		mg/kg wet							
>C12-C28	17.5		"							
Surrogate: 1-Chlorooctane	91.1		"	100		91.1	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.4	70-130			
Calibration Blank (P0G1608-CCB2)										
					Prepared: 07/16/20 Analyzed: 07/17/20					
C6-C12	8.87		mg/kg wet							
>C12-C28	6.67		"							
Surrogate: 1-Chlorooctane	87.6		"	100		87.6	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

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12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G1608 - TX 1005**Calibration Check (P0G1608-CCV1)**

Prepared & Analyzed: 07/16/20

C6-C12	459	25.0	mg/kg wet	500		91.8	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	96.5		"	100		96.5	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			

Calibration Check (P0G1608-CCV2)

Prepared: 07/16/20 Analyzed: 07/17/20

C6-C12	440	25.0	mg/kg wet	500		88.0	85-115			
>C12-C28	507	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	93.3		"	100		93.3	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.1	70-130			

Calibration Check (P0G1608-CCV3)

Prepared: 07/16/20 Analyzed: 07/17/20

C6-C12	461	25.0	mg/kg wet	500		92.2	85-115			
>C12-C28	537	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	46.1		"	50.0		92.3	70-130			

Matrix Spike (P0G1608-MS1)

Source: 0G16002-01

Prepared: 07/16/20 Analyzed: 07/17/20

C6-C12	981	27.5	mg/kg dry	1100	11.6	88.2	75-125			
>C12-C28	1150	27.5	"	1100	ND	104	75-125			
Surrogate: 1-Chlorooctane	121		"	110		110	70-130			
Surrogate: o-Terphenyl	56.8		"	54.9		103	70-130			

Matrix Spike Dup (P0G1608-MSD1)

Source: 0G16002-01

Prepared: 07/16/20 Analyzed: 07/17/20

C6-C12	956	27.5	mg/kg dry	1100	11.6	86.0	75-125	2.56	20	
>C12-C28	1160	27.5	"	1100	ND	105	75-125	0.922	20	
Surrogate: 1-Chlorooctane	119		"	110		108	70-130			
Surrogate: o-Terphenyl	56.1		"	54.9		102	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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: 7/24/2020

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.



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 Kindley

Company Name: Dean Services

Company Address: 12600 WCR 91

City/State/Zip: Midland, TX 79707

Telephone No: 432-230-0920

Sampler Signature: [Signature]

Fax No:

e-mail: Sybilia Reynolds

Kayla Long
Eliquis Smith
Jeff Kindley

Report Format: Standard TRRP NPDES

Project Name: Plains Ridge West Release

Project #: PP-2083

Project Loc: Edley, NM

PO #: SRS 2020-062

ORDER #: 0916000

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	Matrix	TPH: TX 1005 TX 1006	Anions (Cl, SO ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TAH 8015M Est	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	BH-1	3'	3'	07/14/20	1052		1	✓								S						✓	✓
2	BH-2	3'	3'	07/14/20	1054		1	✓								S						✓	✓
3	BH-3	3'	3'	07/14/20	1121		1	✓								S						✓	✓
4	BH-4	3'	3'	07/14/20	1123		1	✓								S						✓	✓
5	BH-5	3'	3'	07/14/20	1125		1	✓								S						✓	✓
6	BH-6	3'	3'	07/14/20	1127		1	✓								S						✓	✓
7	BH-7	3'	3'	07/14/20	1129		1	✓								S						✓	✓
8	EW-1	1.5'	1.5'	07/14/20	1216		1	✓								S						✓	✓
9	SM-1	1.5'	1.5'	07/14/20	1200		1	✓								S						✓	✓
10	MW-1	1.5'	1.5'	07/14/20	1211		1	✓								S						✓	✓

Special Instructions:

Relinquished by: [Signature] Date: 7-15-20 Time: 410 Received by: [Signature] Date: Time:

Relinquished by: [Signature] Date: Time: Received by: [Signature] Date: Time:

Relinquished by: [Signature] Date: 7-15-20 Time: 410 Received by: [Signature] Date: Time:

Received by PBEI: [Signature] Date: 7-15-20 Time: 410

Laboratory Comments:
Sample Containers Intact? Y
Seals Free of Headspace? Y
VOCs Free of Headspace? Y
Custody seals on containers? Y
Custody seals on containers? Y
Sample Hand Delivered? Y
by Sampler/Client Rep? Y
by Courier? Y
Temperature Upon Receipt: 52 °C
Adjusted: 51.2 °C

LMD OK

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G17005



NELAP/TCEQ # T104704516-17-8

Report Date: 07/24/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-8 @ 3'	0G17005-01	Soil	07/16/20 11:46	07-17-2020 09:48
BH-9 @ 3'	0G17005-02	Soil	07/16/20 11:50	07-17-2020 09:48
BH-10 @ 3'	0G17005-03	Soil	07/16/20 11:53	07-17-2020 09:48
BH-11 @ 3'	0G17005-04	Soil	07/16/20 11:55	07-17-2020 09:48
BH-12 @ 3'	0G17005-05	Soil	07/16/20 11:57	07-17-2020 09:48
BH-13 @ 3'	0G17005-06	Soil	07/16/20 11:59	07-17-2020 09:48
BH-14 @ 3'	0G17005-07	Soil	07/16/20 12:02	07-17-2020 09:48
BH-15 @ 3'	0G17005-08	Soil	07/16/20 12:04	07-17-2020 09:48
BH-16 @ 3'	0G17005-09	Soil	07/16/20 12:08	07-17-2020 09:48
BH-17 @ 3'	0G17005-10	Soil	07/16/20 12:10	07-17-2020 09:48

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-8 @ 3'
0G17005-01 (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	POG1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	0.00629	0.00200	mg/kg dry	1	POG1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	0.00126	0.00100	mg/kg dry	1	POG1705	07/17/20	07/17/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.1 %	75-125		POG1705	07/17/20	07/17/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.9 %	75-125		POG1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	93.8	1.10	mg/kg dry	1	POG2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	POG2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POG2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	278	27.5	mg/kg dry	1	POG2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	42.8	27.5	mg/kg dry	1	POG2005	07/20/20	07/20/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		81.8 %	70-130		POG2005	07/20/20	07/20/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		93.3 %	70-130		POG2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	321	27.5	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-9 @ 3'
0G17005-02 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.2 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.3	1.12	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	51.1	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.7 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		95.1 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	51.1	28.1	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-10 @ 3'
0G17005-03 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.2 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.5	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-11 @ 3'
0G17005-04 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.3 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.7 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	140	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.1 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		97.0 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-12 @ 3'
0G17005-05 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.9 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.7 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	142	1.04	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.5 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		96.7 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-13 @ 3'
0G17005-06 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	0.00201	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	0.00189	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	0.0102	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	0.00232	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.5 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.6 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	122	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.5 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		100 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-14 @ 3'
0G17005-07 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.8 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	177	1.12	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.7 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		99.6 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-15 @ 3'
0G17005-08 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.8 %		75-125	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %		75-125	P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	206	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %		70-130	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %		70-130	P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-16 @ 3'
0G17005-09 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	256	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.0 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-17 @ 3'
0G17005-10 (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	P0G1705	07/17/20	07/17/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.1 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0G1705	07/17/20	07/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	123	1.11	mg/kg dry	1	P0G2110	07/21/20	07/22/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2008	07/20/20	07/20/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P0G2005	07/20/20	07/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/20/20	07/20/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G1705 - General Preparation (GC)**Blank (P0G1705-BLK1)**

Prepared & Analyzed: 07/17/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	75-125			

LCS (P0G1705-BS1)

Prepared & Analyzed: 07/17/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0976	0.00200	"	0.100		97.6	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.221	0.00200	"	0.200		111	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			

LCS Dup (P0G1705-BSD1)

Prepared & Analyzed: 07/17/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120	11.2	20	
Toluene	0.112	0.00200	"	0.100		112	80-120	14.1	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	11.9	20	
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120	2.92	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	9.52	20	
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.1	75-125			

Calibration Blank (P0G1705-CCB1)

Prepared & Analyzed: 07/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.820		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	0.930		"							
Xylene (o)	0.380		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	75-125			

Permian Basin Environmental Lab, L.P.

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Page 13 of 22

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G1705 - General Preparation (GC)**Calibration Blank (P0G1705-CCB2)**

Prepared & Analyzed: 07/17/20

Benzene	0.00		mg/kg wet							
Toluene	1.02		"							
Ethylbenzene	0.770		"							
Xylene (p/m)	1.35		"							
Xylene (o)	0.460		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	75-125			

Calibration Check (P0G1705-CCV1)

Prepared & Analyzed: 07/17/20

Benzene	0.0997	0.00100	mg/kg wet	0.100		99.7	80-120			
Toluene	0.0970	0.00200	"	0.100		97.0	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		108	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Calibration Check (P0G1705-CCV2)

Prepared & Analyzed: 07/17/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0979	0.00200	"	0.100		97.9	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			

Calibration Check (P0G1705-CCV3)

Prepared & Analyzed: 07/17/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.104	0.00200	"	0.100		104	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G1705 - General Preparation (GC)

Matrix Spike (P0G1705-MS1)	Source: 0G17002-06			Prepared & Analyzed: 07/17/20						
Benzene	0.0707	0.00100	mg/kg dry	0.100	ND	70.7	80-120			QM-07
Toluene	0.0494	0.00200	"	0.100	0.00209	47.3	80-120			QM-07
Ethylbenzene	0.0454	0.00100	"	0.100	0.00150	43.9	80-120			QM-07
Xylene (p/m)	0.0742	0.00200	"	0.200	0.0124	30.9	80-120			QM-07
Xylene (o)	0.0354	0.00100	"	0.100	0.00217	33.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

Matrix Spike Dup (P0G1705-MSD1)	Source: 0G17002-06			Prepared & Analyzed: 07/17/20						
Benzene	0.0640	0.00100	mg/kg dry	0.100	ND	64.0	80-120	9.91	20	QM-07
Toluene	0.0365	0.00200	"	0.100	0.00209	34.4	80-120	31.5	20	QM-07
Ethylbenzene	0.0306	0.00100	"	0.100	0.00150	29.1	80-120	40.5	20	QM-07
Xylene (p/m)	0.0485	0.00200	"	0.200	0.0124	18.1	80-120	52.3	20	QM-07
Xylene (o)	0.0200	0.00100	"	0.100	0.00217	17.8	80-120	60.7	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	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 Ridge Nose
Project Number: PP-2083
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 P0G2008 - *** DEFAULT PREP ***										
Blank (P0G2008-BLK1) Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%							
Blank (P0G2008-BLK2) Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%							
Blank (P0G2008-BLK3) Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%							
Blank (P0G2008-BLK4) Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%							
Blank (P0G2008-BLK5) Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%							
Duplicate (P0G2008-DUP1) Source: 0G17002-05 Prepared & Analyzed: 07/20/20										
% Moisture	ND	0.1	%		1.0			200	20	
Duplicate (P0G2008-DUP2) Source: 0G17005-09 Prepared & Analyzed: 07/20/20										
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0G2008-DUP3) Source: 0G17004-14 Prepared & Analyzed: 07/20/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0G2008-DUP4) Source: 0G17004-24 Prepared & Analyzed: 07/20/20										
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G2008-DUP5) Source: 0G17008-02 Prepared & Analyzed: 07/20/20										
% Moisture	2.0	0.1	%		2.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2008 - * DEFAULT PREP *****

Duplicate (P0G2008-DUP6)		Source: 0G17012-01			Prepared & Analyzed: 07/20/20					
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G2008-DUP7)		Source: 0G17013-01			Prepared & Analyzed: 07/20/20					
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P0G2008-DUP8)		Source: 0G17015-01			Prepared & Analyzed: 07/20/20					
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0G2008-DUP9)		Source: 0G17018-09			Prepared & Analyzed: 07/20/20					
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P0G2008-DUPA)		Source: 0G17020-03			Prepared & Analyzed: 07/20/20					
% Moisture	9.0	0.1	%		8.0			11.8	20	

Batch P0G2110 - * DEFAULT PREP *****

Blank (P0G2110-BLK1)					Prepared & Analyzed: 07/21/20					
Chloride	ND	1.00	mg/kg wet							
LCS (P0G2110-BS1)					Prepared & Analyzed: 07/21/20					
Chloride	396	1.00	mg/kg wet	400	99.1		80-120			
LCS Dup (P0G2110-BSD1)					Prepared & Analyzed: 07/21/20					
Chloride	400	1.00	mg/kg wet	400	100		80-120	1.05	20	
Calibration Check (P0G2110-CCV1)					Prepared & Analyzed: 07/21/20					
Chloride	18.6		mg/kg	20.0	93.1		0-200			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2110 - *** DEFAULT PREP ***										
Calibration Check (P0G2110-CCV2)				Prepared: 07/21/20 Analyzed: 07/22/20						
Chloride	17.4		mg/kg	20.0		87.2	0-200			
Calibration Check (P0G2110-CCV3)				Prepared: 07/21/20 Analyzed: 07/22/20						
Chloride	18.1		mg/kg	20.0		90.3	0-200			
Matrix Spike (P0G2110-MS1)				Source: 0G17004-05		Prepared & Analyzed: 07/21/20				
Chloride	3800	11.2	mg/kg dry	1120	2700	97.7	80-120			
Matrix Spike (P0G2110-MS2)				Source: 0G17005-01		Prepared: 07/21/20 Analyzed: 07/22/20				
Chloride	588	1.10	mg/kg dry	549	93.8	89.9	80-120			
Matrix Spike Dup (P0G2110-MSD1)				Source: 0G17004-05		Prepared & Analyzed: 07/21/20				
Chloride	3660	11.2	mg/kg dry	1120	2700	85.5	80-120	3.69	20	
Matrix Spike Dup (P0G2110-MSD2)				Source: 0G17005-01		Prepared: 07/21/20 Analyzed: 07/22/20				
Chloride	583	1.10	mg/kg dry	549	93.8	89.0	80-120	0.847	20	

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2005 - TX 1005**Blank (P0G2005-BLK1)**

Prepared & Analyzed: 07/20/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	51.6		"	50.0		103	70-130			

LCS (P0G2005-BS1)

Prepared & Analyzed: 07/20/20

C6-C12	905	25.0	mg/kg wet	1000		90.5	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			

LCS Dup (P0G2005-BS1)

Prepared & Analyzed: 07/20/20

C6-C12	919	25.0	mg/kg wet	1000		91.9	75-125	1.51	20	
>C12-C28	1130	25.0	"	1000		113	75-125	4.22	20	
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		98.0	70-130			

Calibration Check (P0G2005-CCV1)

Prepared & Analyzed: 07/20/20

C6-C12	529	25.0	mg/kg wet	500		106	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			

Calibration Check (P0G2005-CCV2)

Prepared & Analyzed: 07/20/20

C6-C12	537	25.0	mg/kg wet	500		107	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2005 - TX 1005

Matrix Spike (P0G2005-MS1)

Source: 0G17010-07

Prepared: 07/20/20 Analyzed: 07/21/20

C6-C12	906	25.0	mg/kg dry	1000	10.0	89.6	75-125			
>C12-C28	1050	25.0	"	1000	31.6	102	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	42.8		"	50.0		85.6	70-130			

Matrix Spike Dup (P0G2005-MSD1)

Source: 0G17010-07

Prepared: 07/20/20 Analyzed: 07/21/20

C6-C12	902	25.0	mg/kg dry	1000	10.0	89.2	75-125	0.442	20	
>C12-C28	1070	25.0	"	1000	31.6	104	75-125	1.96	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	43.3		"	50.0		86.7	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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: 7/24/2020

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.

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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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G20002



NELAP/TCEQ # T104704516-17-8

Report Date: 07/28/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-18 @ 7'	0G20002-01	Soil	07/17/20 08:34	07-17-2020 15:51
BH-19 @ 7'	0G20002-02	Soil	07/17/20 08:37	07-17-2020 15:51
BH-20 @ 7'	0G20002-03	Soil	07/17/20 08:40	07-17-2020 15:51
EW-2 @ 4'	0G20002-04	Soil	07/17/20 08:46	07-17-2020 15:51
NW-1 @ 4'	0G20002-05	Soil	07/17/20 08:42	07-17-2020 15:51
WW-2 @ 4'	0G20002-06	Soil	07/17/20 08:44	07-17-2020 15:51
SW-2 @ 4'	0G20002-07	Soil	07/17/20 08:48	07-17-2020 15:51
BH-21 @ 3'	0G20002-08	Soil	07/17/20 09:10	07-17-2020 15:51
BH-22 @ 3'	0G20002-09	Soil	07/17/20 09:13	07-17-2020 15:51
BH-23 @ 3'	0G20002-10	Soil	07/17/20 09:24	07-17-2020 15:51
BH-24 @ 3'	0G20002-11	Soil	07/17/20 09:15	07-17-2020 15:51
BH-25 @ 3'	0G20002-12	Soil	07/17/20 09:26	07-17-2020 15:51
BH-26 @ 3'	0G20002-13	Soil	07/17/20 09:33	07-17-2020 15:51
BH-27 @ 3'	0G20002-14	Soil	07/17/20 09:17	07-17-2020 15:51
BH-28 @ 3'	0G20002-15	Soil	07/17/20 09:28	07-17-2020 15:51
BH-29 @ 3'	0G20002-16	Soil	07/17/20 09:35	07-17-2020 15:51
BH-30 @ 3'	0G20002-17	Soil	07/17/20 09:19	07-17-2020 15:51
BH-31 @ 3'	0G20002-18	Soil	07/17/20 09:31	07-17-2020 15:51
BH-32 @ 3'	0G20002-19	Soil	07/17/20 09:37	07-17-2020 15:51
BH-33 @ 3'	0G20002-20	Soil	07/17/20 09:22	07-17-2020 15:51
BH-34 @ 3'	0G20002-21	Soil	07/17/20 09:39	07-17-2020 15:51
SW-3 @ 1.5'	0G20002-22	Soil	07/17/20 10:05	07-17-2020 15:51
EW-3 @ 1.5'	0G20002-23	Soil	07/17/20 10:03	07-17-2020 15:51
SW-4 @ 1.5'	0G20002-24	Soil	07/17/20 10:01	07-17-2020 15:51
EW-4 @ 1.5'	0G20002-25	Soil	07/17/20 09:59	07-17-2020 15:51
NE WALL @ 1.5'	0G20002-26	Soil	07/17/20 09:57	07-17-2020 15:51
NW-2 @ 1.5'	0G20002-27	Soil	07/17/20 09:55	07-17-2020 15:51

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-18 @ 7'
0G20002-01 (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	POG2010	07/20/20	07/20/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG2010	07/20/20	07/20/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	POG2010	07/20/20	07/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00500	mg/kg dry	1	POG2010	07/20/20	07/20/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	POG2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.8 %		75-125	POG2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.1 %		75-125	POG2010	07/20/20	07/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	45.5	11.6	mg/kg dry	10	POG2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	POG2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	POG2102	07/21/20	07/21/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	POG2102	07/21/20	07/21/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	POG2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.2 %		70-130	POG2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %		70-130	POG2102	07/21/20	07/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	07/21/20	07/21/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-19 @ 7'
0G20002-02 (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	P0G2010	07/20/20	07/20/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00500	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-125		P0G2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P0G2010	07/20/20	07/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	82.3	11.1	mg/kg dry	10	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/21/20	07/21/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-20 @ 7'
0G20002-03 (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	P0G2010	07/20/20	07/20/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00500	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.0 %	75-125		P0G2010	07/20/20	07/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	75-125		P0G2010	07/20/20	07/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	51.9	11.1	mg/kg dry	10	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C12-C28	141	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.1 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	141	27.8	mg/kg dry	1	[CALC]	07/21/20	07/21/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-2 @ 4'
OG20002-04 (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	6.66	0.100	mg/kg dry	100	POG2010	07/20/20	07/21/20	EPA 8021B	
Toluene	28.0	0.200	mg/kg dry	100	POG2010	07/20/20	07/21/20	EPA 8021B	
Ethylbenzene	24.3	0.200	mg/kg dry	100	POG2010	07/20/20	07/21/20	EPA 8021B	
Xylene (p/m)	71.8	0.500	mg/kg dry	100	POG2010	07/20/20	07/21/20	EPA 8021B	
Xylene (o)	27.0	0.200	mg/kg dry	100	POG2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.2 %		75-125	POG2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		82.4 %		75-125	POG2010	07/20/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	49.0	11.5	mg/kg dry	10	POG2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	POG2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	7630	144	mg/kg dry	5	POG2102	07/21/20	07/21/20	TPH 8015M	
>C12-C28	16100	144	mg/kg dry	5	POG2102	07/21/20	07/21/20	TPH 8015M	
>C28-C35	2380	144	mg/kg dry	5	POG2102	07/21/20	07/21/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %		70-130	POG2102	07/21/20	07/21/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		124 %		70-130	POG2102	07/21/20	07/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26100	144	mg/kg dry	5	[CALC]	07/21/20	07/21/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NW-1 @ 4'
OG20002-05 (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	P0G2010	07/20/20	07/21/20	EPA 8021B	
Toluene	0.00537	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Ethylbenzene	0.00485	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.0194	0.00500	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (o)	0.00463	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.1 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		91.8 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	77.2	11.2	mg/kg dry	10	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C12-C28	56.4	28.1	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/21/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		102 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		P0G2102	07/21/20	07/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	56.4	28.1	mg/kg dry	1	[CALC]	07/21/20	07/21/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

WW-2 @ 4'
0G20002-06 (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	P0G2010	07/20/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.00718	0.00500	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.4 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		91.8 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.3	11.5	mg/kg dry	10	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		120 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-2 @ 4'
OG20002-07 (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	POG2010	07/20/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG2010	07/20/20	07/21/20	EPA 8021B	
Ethylbenzene	0.00591	0.00200	mg/kg dry	1	POG2010	07/20/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.0198	0.00500	mg/kg dry	1	POG2010	07/20/20	07/21/20	EPA 8021B	
Xylene (o)	0.00729	0.00200	mg/kg dry	1	POG2010	07/20/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		71.0 %	75-125		POG2010	07/20/20	07/21/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		92.1 %	75-125		POG2010	07/20/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	133	1.12	mg/kg dry	1	POG2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	POG2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.9	28.1	mg/kg dry	1	POG2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	652	28.1	mg/kg dry	1	POG2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	93.4	28.1	mg/kg dry	1	POG2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		POG2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		POG2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	792	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-21 @ 3'
0G20002-08 (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	P0G2010	07/20/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00500	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2010	07/20/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P0G2010	07/20/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	166	1.11	mg/kg dry	1	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	77.8	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.7 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	77.8	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-22 @ 3'
OG20002-09 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	0.00201	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	0.0124	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.0309	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	0.0139	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		72.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		91.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	44.3	1.11	mg/kg dry	1	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	86.3	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	1180	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	174	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		116 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1440	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-23 @ 3'
0G20002-10 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	61.7	1.11	mg/kg dry	1	P0G2218	07/22/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	77.9	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	77.9	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-24 @ 3'
0G20002-11 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.8 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.1	1.09	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	206	27.2	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	39.4	27.2	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.3 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	246	27.2	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-25 @ 3'
0G20002-12 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.3 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	52.7	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	195	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	39.9	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.4 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	235	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-26 @ 3'
0G20002-13 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.8 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	130	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	85.0	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	85.0	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-27 @ 3'
0G20002-14 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.6 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.4 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	71.0	1.11	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	83.1	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.3 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	83.1	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-28 @ 3'
0G20002-15 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.8 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	187	1.11	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	68.2	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	68.2	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-29 @ 3'
0G20002-16 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.1 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	60.4	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %		70-130	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %		70-130	P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-30 @ 3'
0G20002-17 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-31 @ 3'
0G20002-18 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	218	1.11	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	130	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.9 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	130	27.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-32 @ 3'
0G20002-19 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.9 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	197	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-33 @ 3'
0G20002-20 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.5 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	192	1.15	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0G2102	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-34 @ 3'
0G20002-21 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	0.00101	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.00329	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.4 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.8 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	244	1.12	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	214	28.1	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	54.1	28.1	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		72.1 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		79.9 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	268	28.1	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-3 @ 1.5'
0G20002-22 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	50.2	1.06	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		71.3 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		78.2 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-3 @ 1.5'
0G20002-23 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.9 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.0 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	188	1.03	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	250	25.8	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	46.1	25.8	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		72.2 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		79.5 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	296	25.8	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-4 @ 1.5'
0G20002-24 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	114	1.06	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.4 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		82.6 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-4 @ 1.5'
OG20002-25 (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	0.00954	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	0.110	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	0.172	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.515	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	0.227	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.1 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.5 %		75-125	P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	215	1.06	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1070	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	4120	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	569	26.6	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		82.9 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		78.7 %		70-130	P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5750	26.6	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NE WALL @ 1.5'
OG20002-26 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	0.00110	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	0.00520	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.7 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	132	1.14	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	103	28.4	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	43.0	28.4	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.4 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		81.0 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	146	28.4	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NW-2 @ 1.5'
0G20002-27 (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	P0G2108	07/21/20	07/21/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Xylene (o)	ND	0.00200	mg/kg dry	1	P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.2 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P0G2108	07/21/20	07/21/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	216	1.10	mg/kg dry	1	P0G2305	07/23/20	07/23/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G2103	07/21/20	07/21/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C12-C28	117	27.5	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
>C28-C35	28.4	27.5	mg/kg dry	1	P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		73.3 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Surrogate: o-Terphenyl		80.5 %	70-130		P0G2111	07/21/20	07/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	145	27.5	mg/kg dry	1	[CALC]	07/21/20	07/22/20	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 Ridge Nose
Project Number: PP-2083
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 P0G2010 - General Preparation (GC)**Blank (P0G2010-BLK1)**

Prepared & Analyzed: 07/20/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00200	"							
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	75-125			

LCS (P0G2010-BS1)

Prepared & Analyzed: 07/20/20

Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120			
Toluene	0.109	0.00200	"	0.100		109	80-120			
Ethylbenzene	0.112	0.00200	"	0.100		112	80-120			
Xylene (p/m)	0.230	0.00500	"	0.200		115	80-120			
Xylene (o)	0.114	0.00200	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.9	75-125			

LCS Dup (P0G2010-BSD1)

Prepared & Analyzed: 07/20/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120	11.2	20	
Toluene	0.102	0.00200	"	0.100		102	80-120	6.83	20	
Ethylbenzene	0.111	0.00200	"	0.100		111	80-120	0.951	20	
Xylene (p/m)	0.225	0.00500	"	0.200		113	80-120	1.85	20	
Xylene (o)	0.102	0.00200	"	0.100		102	80-120	11.6	20	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			

Calibration Blank (P0G2010-CCB1)

Prepared & Analyzed: 07/20/20

Benzene	0.910		mg/kg wet							
Toluene	1.45		"							
Ethylbenzene	0.800		"							
Xylene (p/m)	1.77		"							
Xylene (o)	0.700		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.3	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 Ridge Nose
Project Number: PP-2083
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 P0G2010 - General Preparation (GC)**Calibration Blank (P0G2010-CCB2)**

Prepared & Analyzed: 07/20/20

Benzene	0.00		mg/kg wet							
Toluene	1.16		"							
Ethylbenzene	0.600		"							
Xylene (p/m)	1.20		"							
Xylene (o)	0.710		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	75-125			

Calibration Check (P0G2010-CCV1)

Prepared & Analyzed: 07/20/20

Benzene	0.106	0.00100	mg/kg wet				80-120			
Toluene	0.0974	0.00200	"				80-120			
Ethylbenzene	0.105	0.00200	"				80-120			
Xylene (p/m)	0.217	0.00500	"				80-120			
Xylene (o)	0.101	0.00200	"				80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			

Calibration Check (P0G2010-CCV2)

Prepared & Analyzed: 07/20/20

Benzene	0.108	0.00100	mg/kg wet				80-120			
Toluene	0.102	0.00200	"				80-120			
Ethylbenzene	0.108	0.00200	"				80-120			
Xylene (p/m)	0.219	0.00500	"				80-120			
Xylene (o)	0.106	0.00200	"				80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			

Calibration Check (P0G2010-CCV3)

Prepared: 07/20/20 Analyzed: 07/21/20

Benzene	0.110	0.00100	mg/kg wet				80-120			
Toluene	0.105	0.00200	"				80-120			
Ethylbenzene	0.115	0.00200	"				80-120			
Xylene (p/m)	0.231	0.00500	"				80-120			
Xylene (o)	0.116	0.00200	"				80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.8	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 Ridge Nose
Project Number: PP-2083
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 P0G2010 - General Preparation (GC)**Matrix Spike (P0G2010-MS1)**

Source: 0G17019-01

Prepared: 07/20/20 Analyzed: 07/21/20

Benzene	0.0886	0.00100	mg/kg dry	0.108	ND	82.4	80-120			
Toluene	0.0835	0.00200	"	0.108	0.000677	77.0	80-120			QM-07
Ethylbenzene	0.100	0.00200	"	0.108	0.000774	92.5	80-120			
Xylene (p/m)	0.176	0.00500	"	0.215	0.00142	81.3	80-120			
Xylene (o)	0.0821	0.00200	"	0.108	0.000656	75.7	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.112		"	0.129		86.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.129		95.0	75-125			

Matrix Spike Dup (P0G2010-MSD1)

Source: 0G17019-01

Prepared: 07/20/20 Analyzed: 07/21/20

Benzene	0.0983	0.00100	mg/kg dry	0.108	ND	91.4	80-120	10.4	20	
Toluene	0.0942	0.00200	"	0.108	0.000677	87.0	80-120	12.2	20	
Ethylbenzene	0.115	0.00200	"	0.108	0.000774	106	80-120	13.7	20	
Xylene (p/m)	0.203	0.00500	"	0.215	0.00142	93.6	80-120	14.2	20	
Xylene (o)	0.0939	0.00200	"	0.108	0.000656	86.7	80-120	13.5	20	
Surrogate: 4-Bromofluorobenzene	0.117		"	0.129		91.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.129		96.5	75-125			

Batch P0G2108 - General Preparation (GC)**Blank (P0G2108-BLK1)**

Prepared & Analyzed: 07/21/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00200	"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	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 Ridge Nose
Project Number: PP-2083
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 P0G2108 - General Preparation (GC)**LCS (P0G2108-BS1)**

Prepared & Analyzed: 07/21/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.101	0.00200	"	0.100		101	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.105	0.00200	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.6	75-125			

LCS Dup (P0G2108-BSD1)

Prepared & Analyzed: 07/21/20

Benzene	0.116	0.00100	mg/kg wet	0.100		116	80-120	7.92	20	
Toluene	0.113	0.00200	"	0.100		113	80-120	11.2	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	5.63	20	
Xylene (p/m)	0.233	0.00200	"	0.200		116	80-120	1.02	20	
Xylene (o)	0.113	0.00200	"	0.100		113	80-120	7.43	20	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Calibration Blank (P0G2108-CCB1)

Prepared & Analyzed: 07/21/20

Benzene	0.310		mg/kg wet							
Toluene	1.69		"							
Ethylbenzene	0.540		"							
Xylene (p/m)	0.910		"							
Xylene (o)	0.320		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.0	75-125			

Calibration Blank (P0G2108-CCB2)

Prepared & Analyzed: 07/21/20

Benzene	0.00		mg/kg wet							
Toluene	1.08		"							
Ethylbenzene	0.470		"							
Xylene (p/m)	0.830		"							
Xylene (o)	0.360		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.4	75-125			

Permian Basin Environmental Lab, L.P.

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

Page 33 of 47

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2108 - General Preparation (GC)**Calibration Check (P0G2108-CCV1)**

Prepared & Analyzed: 07/21/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.0952	0.00200	"	0.100		95.2	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.0994	0.00200	"	0.100		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			

Calibration Check (P0G2108-CCV2)

Prepared & Analyzed: 07/21/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.0975	0.00200	"	0.100		97.5	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.100	0.00200	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	75-125			

Calibration Check (P0G2108-CCV3)

Prepared & Analyzed: 07/21/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.102	0.00200	"	0.100		102	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.104	0.00200	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			

Matrix Spike (P0G2108-MS1)

Source: 0G20002-09

Prepared & Analyzed: 07/21/20

Benzene	0.0894	0.00100	mg/kg dry	0.111	ND	80.5	80-120			
Toluene	0.0564	0.00200	"	0.111	0.00201	49.0	80-120			QM-07
Ethylbenzene	0.0566	0.00100	"	0.111	0.0124	39.8	80-120			QM-07
Xylene (p/m)	0.129	0.00200	"	0.222	0.0309	44.0	80-120			QM-07
Xylene (o)	0.0459	0.00200	"	0.111	0.0139	28.8	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0941		"	0.133		70.5	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.132		"	0.133		98.9	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 Ridge Nose
Project Number: PP-2083
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 P0G2108 - General Preparation (GC)

Matrix Spike Dup (P0G2108-MSD1)

Source: 0G20002-09

Prepared & Analyzed: 07/21/20

Benzene	0.0824	0.00100	mg/kg dry	0.111	ND	74.2	80-120	8.20	20	QM-07
Toluene	0.0507	0.00200	"	0.111	0.00201	43.8	80-120	11.1	20	QM-07
Ethylbenzene	0.0489	0.00100	"	0.111	0.0124	32.8	80-120	19.2	20	QM-07
Xylene (p/m)	0.0907	0.00200	"	0.222	0.0309	26.9	80-120	48.3	20	QM-07
Xylene (o)	0.0397	0.00200	"	0.111	0.0139	23.3	80-120	21.3	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0960		"	0.133		72.0	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.132		"	0.133		98.8	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 Ridge Nose
Project Number: PP-2083
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 P0G2103 - *** DEFAULT PREP ***										
Blank (P0G2103-BLK1) Prepared & Analyzed: 07/21/20										
% Moisture	ND	0.1	%							
Blank (P0G2103-BLK2) Prepared & Analyzed: 07/21/20										
% Moisture	ND	0.1	%							
Blank (P0G2103-BLK3) Prepared & Analyzed: 07/21/20										
% Moisture	ND	0.1	%							
Duplicate (P0G2103-DUP1) Source: 0G20002-02 Prepared & Analyzed: 07/21/20										
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P0G2103-DUP2) Source: 0G20002-12 Prepared & Analyzed: 07/21/20										
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G2103-DUP3) Source: 0G20002-27 Prepared & Analyzed: 07/21/20										
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P0G2103-DUP4) Source: 0G20005-06 Prepared & Analyzed: 07/21/20										
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0G2103-DUP5) Source: 0G20007-03 Prepared & Analyzed: 07/21/20										
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P0G2103-DUP6) Source: 0G20007-13 Prepared & Analyzed: 07/21/20										
% Moisture	5.0	0.1	%		5.0			0.00	20	
Batch P0G2218 - *** DEFAULT PREP ***										
LCS (P0G2218-BS1) Prepared & Analyzed: 07/22/20										
Chloride	394	1.00	mg/kg wet	400		98.4	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 Ridge Nose
Project Number: PP-2083
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 P0G2218 - *** DEFAULT PREP ***										
LCS Dup (P0G2218-BSD1)				Prepared & Analyzed: 07/22/20						
Chloride	387	1.00	mg/kg wet	400		96.8	80-120	1.63	20	
Calibration Check (P0G2218-CCV1)				Prepared & Analyzed: 07/22/20						
Chloride	19.3		mg/kg	20.0		96.4	0-200			
Calibration Check (P0G2218-CCV2)				Prepared: 07/22/20 Analyzed: 07/23/20						
Chloride	18.7		mg/kg	20.0		93.7	0-200			
Calibration Check (P0G2218-CCV3)				Prepared: 07/22/20 Analyzed: 07/23/20						
Chloride	19.1		mg/kg	20.0		95.7	0-200			
Matrix Spike (P0G2218-MS1)		Source: 0G17020-05		Prepared & Analyzed: 07/22/20						
Chloride	520	1.11	mg/kg dry	556	39.3	86.6	80-120			
Matrix Spike (P0G2218-MS2)		Source: 0G20002-01		Prepared: 07/22/20 Analyzed: 07/23/20						
Chloride	1290	11.6	mg/kg dry	1160	45.5	107	80-120			
Matrix Spike Dup (P0G2218-MSD1)		Source: 0G17020-05		Prepared & Analyzed: 07/22/20						
Chloride	523	1.11	mg/kg dry	556	39.3	87.0	80-120	0.479	20	
Matrix Spike Dup (P0G2218-MSD2)		Source: 0G20002-01		Prepared: 07/22/20 Analyzed: 07/23/20						
Chloride	1120	11.6	mg/kg dry	1160	45.5	92.3	80-120	14.0	20	
Batch P0G2305 - *** DEFAULT PREP ***										
LCS (P0G2305-BS1)				Prepared & Analyzed: 07/23/20						
Chloride	385	1.00	mg/kg wet	400		96.2	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 Ridge Nose
Project Number: PP-2083
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 P0G2305 - *** DEFAULT PREP ***										
LCS Dup (P0G2305-BSD1) Prepared & Analyzed: 07/23/20										
Chloride	377	1.00	mg/kg wet	400		94.3	80-120	1.98	20	
Calibration Check (P0G2305-CCV1) Prepared & Analyzed: 07/23/20										
Chloride	19.0		mg/kg	20.0		94.8	0-200			
Calibration Check (P0G2305-CCV2) Prepared & Analyzed: 07/23/20										
Chloride	19.3		mg/kg	20.0		96.4	0-200			
Matrix Spike (P0G2305-MS1) Source: 0G20002-11 Prepared & Analyzed: 07/23/20										
Chloride	568	1.09	mg/kg dry	543	27.1	99.6	80-120			
Matrix Spike (P0G2305-MS2) Source: 0G20002-21 Prepared & Analyzed: 07/23/20										
Chloride	740	1.12	mg/kg dry	562	244	88.4	80-120			
Matrix Spike Dup (P0G2305-MSD1) Source: 0G20002-11 Prepared & Analyzed: 07/23/20										
Chloride	535	1.09	mg/kg dry	543	27.1	93.5	80-120	5.97	20	
Matrix Spike Dup (P0G2305-MSD2) Source: 0G20002-21 Prepared & Analyzed: 07/23/20										
Chloride	751	1.12	mg/kg dry	562	244	90.3	80-120	1.43	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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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
Batch P0G2102 - TX 1005										
Blank (P0G2102-BLK1) Prepared & Analyzed: 07/21/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			
LCS (P0G2102-BS1) Prepared & Analyzed: 07/21/20										
C6-C12	916	25.0	mg/kg wet	1000		91.6	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			
LCS Dup (P0G2102-BSD1) Prepared & Analyzed: 07/21/20										
C6-C12	935	25.0	mg/kg wet	1000		93.5	75-125	2.09	20	
>C12-C28	1140	25.0	"	1000		114	75-125	2.90	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			
Calibration Blank (P0G2102-CCB1) Prepared & Analyzed: 07/21/20										
C6-C12	9.54		mg/kg wet							
>C12-C28	6.58		"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			
Calibration Blank (P0G2102-CCB2) Prepared: 07/21/20 Analyzed: 07/22/20										
C6-C12	14.0		mg/kg wet							
>C12-C28	8.99		"							
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2102 - TX 1005

Calibration Check (P0G2102-CCV1)

Prepared & Analyzed: 07/21/20

C6-C12	498	25.0	mg/kg wet	500		99.7	85-115			
>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.1		"	50.0		108	70-130			

Calibration Check (P0G2102-CCV2)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	485	25.0	mg/kg wet	500		97.0	85-115			
>C12-C28	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	52.7		"	50.0		105	70-130			

Calibration Check (P0G2102-CCV3)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	484	25.0	mg/kg wet	500		96.8	85-115			
>C12-C28	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.4		"	50.0		105	70-130			

Matrix Spike (P0G2102-MS1)

Source: 0G20002-20

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	874	28.7	mg/kg dry	1150	16.8	74.5	75-125			QM-05
>C12-C28	1060	28.7	"	1150	12.8	90.8	75-125			
Surrogate: 1-Chlorooctane	108		"	115		94.4	70-130			
Surrogate: o-Terphenyl	48.8		"	57.5		84.9	70-130			

Matrix Spike Dup (P0G2102-MSD1)

Source: 0G20002-20

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	897	28.7	mg/kg dry	1150	16.8	76.6	75-125	2.73	20	
>C12-C28	1090	28.7	"	1150	12.8	93.4	75-125	2.88	20	
Surrogate: 1-Chlorooctane	112		"	115		97.6	70-130			
Surrogate: o-Terphenyl	51.5		"	57.5		89.6	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 Ridge Nose
Project Number: PP-2083
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 P0G2111 - TX 1005**Blank (P0G2111-BLK1)**

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.2		"	100		79.2	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.7	70-130			

LCS (P0G2111-BS1)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	778	25.0	mg/kg wet	1000		77.8	75-125			
>C12-C28	906	25.0	"	1000		90.6	75-125			
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	36.3		"	50.0		72.6	70-130			

LCS Dup (P0G2111-BSD1)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	801	25.0	mg/kg wet	1000		80.1	75-125	2.85	20	
>C12-C28	808	25.0	"	1000		80.8	75-125	11.3	20	
Surrogate: 1-Chlorooctane	76.8		"	100		76.8	70-130			
Surrogate: o-Terphenyl	33.0		"	50.0		65.9	70-130			S-GC

Calibration Check (P0G2111-CCV1)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	442	25.0	mg/kg wet	500		88.4	85-115			
>C12-C28	476	25.0	"	500		95.2	85-115			
Surrogate: 1-Chlorooctane	76.3		"	100		76.3	70-130			
Surrogate: o-Terphenyl	39.6		"	50.0		79.3	70-130			

Calibration Check (P0G2111-CCV2)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	473	25.0	mg/kg wet	500		94.6	85-115			
>C12-C28	497	25.0	"	500		99.5	85-115			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	42.7		"	50.0		85.4	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 Ridge Nose
Project Number: PP-2083
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 P0G2111 - TX 1005

Calibration Check (P0G2111-CCV3)

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	468	25.0	mg/kg wet	500		93.6	85-115			
>C12-C28	519	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	85.4		"	100		85.4	70-130			
Surrogate: o-Terphenyl	42.7		"	50.0		85.5	70-130			

Matrix Spike (P0G2111-MS1)

Source: 0G20002-27

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	994	27.5	mg/kg dry	1100	12.3	89.4	75-125			
>C12-C28	1160	27.5	"	1100	117	94.9	75-125			
Surrogate: 1-Chlorooctane	105		"	110		95.4	70-130			
Surrogate: o-Terphenyl	45.8		"	54.9		83.4	70-130			

Matrix Spike Dup (P0G2111-MSD1)

Source: 0G20002-27

Prepared: 07/21/20 Analyzed: 07/22/20

C6-C12	988	27.5	mg/kg dry	1100	12.3	88.8	75-125	0.633	20	
>C12-C28	1160	27.5	"	1100	117	94.7	75-125	0.231	20	
Surrogate: 1-Chlorooctane	104		"	110		94.3	70-130			
Surrogate: o-Terphenyl	45.4		"	54.9		82.7	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 Ridge Nose
Project Number: PP-2083
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: 7/28/2020

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G22008



NELAP/TCEQ # T104704516-17-8

Report Date: 07/30/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-35 @ 3'	0G22008-01	Soil	07/21/20 11:42	07-22-2020 09:30
BH-36 @ 3'	0G22008-02	Soil	07/21/20 11:45	07-22-2020 09:30
BH-37 @ 3'	0G22008-03	Soil	07/21/20 11:47	07-22-2020 09:30
BH-38 @ 3'	0G22008-04	Soil	07/21/20 11:49	07-22-2020 09:30
BH-39 @ 3'	0G22008-05	Soil	07/21/20 11:51	07-22-2020 09:30
BH-40 @ 3'	0G22008-06	Soil	07/21/20 11:56	07-22-2020 09:30
BH-41 @ 3'	0G22008-07	Soil	07/21/20 11:59	07-22-2020 09:30

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-35 @ 3'
0G22008-01 (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	POG2204	07/22/20	07/22/20	EPA 8021B	
Toluene	0.00106	0.00100	mg/kg dry	1	POG2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	0.00220	0.00200	mg/kg dry	1	POG2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG2204	07/22/20	07/22/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.6 %		75-125	POG2204	07/22/20	07/22/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.2 %		75-125	POG2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6540	11.1	mg/kg dry	10	POG2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	POG2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POG2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	118	27.8	mg/kg dry	1	POG2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	45.3	27.8	mg/kg dry	1	POG2306	07/23/20	07/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		92.6 %		70-130	POG2306	07/23/20	07/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		103 %		70-130	POG2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	163	27.8	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-36 @ 3'
0G22008-02 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.9 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3110	5.62	mg/kg dry	5	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	52.9	28.1	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.5 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		97.8 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	52.9	28.1	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-37 @ 3'
0G22008-03 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.5 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4880	11.5	mg/kg dry	10	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-38 @ 3'
0G22008-04 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.0 %		75-125	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %		75-125	P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4240	5.56	mg/kg dry	5	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.3 %		70-130	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %		70-130	P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-39 @ 3'
0G22008-05 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2390	5.56	mg/kg dry	5	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.1 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-40 @ 3'
0G22008-06 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.8 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1210	1.18	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-41 @ 3'
0G22008-07 (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	P0G2204	07/22/20	07/22/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.9 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-125		P0G2204	07/22/20	07/22/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8020	11.1	mg/kg dry	10	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2301	07/23/20	07/23/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0G2306	07/23/20	07/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/23/20	07/23/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2204 - General Preparation (GC)**Blank (P0G2204-BLK1)**

Prepared & Analyzed: 07/22/20

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	0.108		"	0.120		89.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.2	75-125			

LCS (P0G2204-BS1)

Prepared & Analyzed: 07/22/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	75-125			

LCS Dup (P0G2204-BSD1)

Prepared & Analyzed: 07/22/20

Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120	6.22	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	3.18	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	1.63	20	
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120	2.28	20	
Xylene (o)	0.112	0.00100	"	0.100		112	80-120	3.47	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			

Calibration Blank (P0G2204-CCB1)

Prepared & Analyzed: 07/22/20

Benzene	0.00		mg/kg wet							
Toluene	0.660		"							
Ethylbenzene	0.500		"							
Xylene (p/m)	0.850		"							
Xylene (o)	0.350		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.8	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 Ridge Nose
Project Number: PP-2083
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 P0G2204 - General Preparation (GC)**Calibration Blank (P0G2204-CCB2)**

Prepared & Analyzed: 07/22/20

Benzene	0.320		mg/kg wet							
Toluene	0.760		"							
Ethylbenzene	0.900		"							
Xylene (p/m)	1.51		"							
Xylene (o)	0.550		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	75-125			

Calibration Check (P0G2204-CCV1)

Prepared & Analyzed: 07/22/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0960	0.00100	"	0.100		96.0	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.1	75-125			

Calibration Check (P0G2204-CCV2)

Prepared & Analyzed: 07/22/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			

Calibration Check (P0G2204-CCV3)

Prepared & Analyzed: 07/22/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	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 Ridge Nose
Project Number: PP-2083
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 P0G2204 - General Preparation (GC)**Matrix Spike (P0G2204-MS1)**

Source: 0G22008-01

Prepared & Analyzed: 07/22/20

Benzene	0.0874	0.00100	mg/kg dry	0.111	ND	78.6	80-120			QM-07
Toluene	0.0757	0.00100	"	0.111	0.00106	67.1	80-120			QM-07
Ethylbenzene	0.0976	0.00100	"	0.111	0.000633	87.3	80-120			
Xylene (p/m)	0.169	0.00200	"	0.222	0.00220	74.9	80-120			QM-07
Xylene (o)	0.0741	0.00100	"	0.111	0.000533	66.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.126		"	0.133		94.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.133		93.7	75-125			

Matrix Spike Dup (P0G2204-MSD1)

Source: 0G22008-01

Prepared & Analyzed: 07/22/20

Benzene	0.0895	0.00100	mg/kg dry	0.111	ND	80.5	80-120	2.39	20	
Toluene	0.0834	0.00100	"	0.111	0.00106	74.1	80-120	9.88	20	QM-07
Ethylbenzene	0.104	0.00100	"	0.111	0.000633	93.1	80-120	6.47	20	
Xylene (p/m)	0.179	0.00200	"	0.222	0.00220	79.5	80-120	5.87	20	QM-07
Xylene (o)	0.0811	0.00100	"	0.111	0.000533	72.5	80-120	9.01	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.121		"	0.133		90.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.133		96.7	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 Ridge Nose
Project Number: PP-2083
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 P0G2301 - *** DEFAULT PREP ***										
Blank (P0G2301-BLK1) Prepared & Analyzed: 07/23/20										
% Moisture	ND	0.1	%							
Blank (P0G2301-BLK2) Prepared & Analyzed: 07/23/20										
% Moisture	ND	0.1	%							
Blank (P0G2301-BLK3) Prepared & Analyzed: 07/23/20										
% Moisture	ND	0.1	%							
Duplicate (P0G2301-DUP1) Source: 0G22001-02 Prepared & Analyzed: 07/23/20										
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G2301-DUP2) Source: 0G22003-05 Prepared & Analyzed: 07/23/20										
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0G2301-DUP3) Source: 0G22006-10 Prepared & Analyzed: 07/23/20										
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0G2301-DUP4) Source: 0G22007-04 Prepared & Analyzed: 07/23/20										
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P0G2301-DUP5) Source: 0G22010-10 Prepared & Analyzed: 07/23/20										
% Moisture	8.0	0.1	%		9.0			11.8	20	
Batch P0G2703 - *** DEFAULT PREP ***										
Blank (P0G2703-BLK1) Prepared & Analyzed: 07/27/20										
Chloride	ND	1.00	mg/kg wet							

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2703 - *** DEFAULT PREP ***										
LCS (P0G2703-BS1)				Prepared & Analyzed: 07/27/20						
Chloride	375	1.00	mg/kg wet	400		93.8	80-120			
LCS Dup (P0G2703-BSD1)				Prepared & Analyzed: 07/27/20						
Chloride	367	1.00	mg/kg wet	400		91.8	80-120	2.19	20	
Calibration Check (P0G2703-CCV2)				Prepared & Analyzed: 07/27/20						
Chloride	19.5		mg/kg	20.0		97.6	0-200			
Calibration Check (P0G2703-CCV3)				Prepared & Analyzed: 07/27/20						
Chloride	19.0		mg/kg	20.0		94.8	0-200			
Matrix Spike (P0G2703-MS1)		Source: 0G22008-01		Prepared & Analyzed: 07/27/20						
Chloride	8330	11.1	mg/kg dry	1110	6540	161	80-120			QM-05
Matrix Spike (P0G2703-MS2)		Source: 0G23001-04		Prepared & Analyzed: 07/27/20						
Chloride	3200	11.4	mg/kg dry	1140	2080	98.7	80-120			
Matrix Spike Dup (P0G2703-MSD1)		Source: 0G22008-01		Prepared & Analyzed: 07/27/20						
Chloride	7990	11.1	mg/kg dry	1110	6540	131	80-120	4.14	20	QM-05
Matrix Spike Dup (P0G2703-MSD2)		Source: 0G23001-04		Prepared & Analyzed: 07/27/20						
Chloride	3150	11.4	mg/kg dry	1140	2080	94.2	80-120	1.63	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 Ridge Nose
Project Number: PP-2083
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 P0G2306 - TX 1005

Blank (P0G2306-BLK1)

Prepared & Analyzed: 07/23/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.1		"	100		83.1	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	70-130			

LCS (P0G2306-BS1)

Prepared & Analyzed: 07/23/20

C6-C12	832	25.0	mg/kg wet	1000		83.2	75-125			
>C12-C28	943	25.0	"	1000		94.3	75-125			
Surrogate: 1-Chlorooctane	81.0		"	100		81.0	70-130			
Surrogate: o-Terphenyl	40.6		"	50.0		81.2	70-130			

LCS Dup (P0G2306-BSD1)

Prepared & Analyzed: 07/23/20

C6-C12	816	25.0	mg/kg wet	1000		81.6	75-125	1.95	20	
>C12-C28	941	25.0	"	1000		94.1	75-125	0.139	20	
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	39.9		"	50.0		79.8	70-130			

Calibration Check (P0G2306-CCV1)

Prepared & Analyzed: 07/23/20

C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	87.6		"	100		87.6	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	70-130			

Calibration Check (P0G2306-CCV2)

Prepared & Analyzed: 07/23/20

C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	86.3		"	100		86.3	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.7	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 Ridge Nose
Project Number: PP-2083
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 P0G2306 - TX 1005

Calibration Check (P0G2306-CCV3)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	448	25.0	mg/kg wet	500		89.6	85-115			
>C12-C28	495	25.0	"	500		99.1	85-115			
Surrogate: 1-Chlorooctane	81.4		"	100		81.4	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.8	70-130			

Matrix Spike (P0G2306-MS1)

Source: 0G22010-01

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	861	28.1	mg/kg dry	1120	55.8	71.7	75-125			
>C12-C28	995	28.1	"	1120	98.4	79.8	75-125			
Surrogate: 1-Chlorooctane	97.0		"	112		86.4	70-130			
Surrogate: o-Terphenyl	42.7		"	56.2		75.9	70-130			

Matrix Spike Dup (P0G2306-MSD1)

Source: 0G22010-01

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	907	28.1	mg/kg dry	1120	55.8	75.8	75-125	5.48	20	
>C12-C28	1020	28.1	"	1120	98.4	82.3	75-125	3.11	20	
Surrogate: 1-Chlorooctane	88.5		"	112		78.7	70-130			
Surrogate: o-Terphenyl	46.3		"	56.2		82.5	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

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.
- 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: 7/30/2020

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

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

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

Phone: 432-686-7235

Project Manager: Jeff Kindley

Company Name: Acorn Services

Company Address: 12600 WCR 91

City/State/Zip: Midland, TX 79707

Telephone No: 432-230-0920

Sampler Signature: Jim Rulmer

(lab use only)

ORDER #: 0622008

Project Name: Plains Acifer Noise

Project #: PP-2063

Project Loc: Edley Co, NM

PO #: SR5# 2020-062

Report Format: Standard

TRRP

NPDES

Fax No:

Jeff Kindley
Sylvia Reynolds
Elisabeth Smith
Kayla Long

TPH:	TX 1005	TX 1006
Antons (Cl, SO ₄ , Alkalinity)		
BTEX 8021B/5030 or BTEX 8260		
TPH 8015M		
Chloride		
TOTAL:		

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	Matrix	TPH: TX 1005	TX 1006	Antons (Cl, SO ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TPH 8015M	Chloride	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	BH-35 @ 3 Ft	3'	3'	07/21/20	1412		1	✓								Soil								✓
2	BH-36 @ 3 Ft	3'	3'	07/21/20	1445		1	✓								Soil								✓
3	BH-37 @ 3 Ft	3'	3'	07/21/20	1447		1	✓								Soil								✓
4	BH-38 @ 3 Ft	3'	3'	07/21/20	1449		1	✓								Soil								✓
5	BH-39 @ 3 Ft	3'	3'	07/21/20	1451		1	✓								Soil								✓
6	BH-40 @ 3 Ft	3'	3'	07/21/20	1456		1	✓								Soil								✓
7	BH-41 @ 3 Ft	3'	3'	07/21/20	1459		1	✓								Soil								✓

Special Instructions:

Relinquished by: Jeff Kindley

Relinquished by: Jeff Kindley

Relinquished by:

Date: 07/21/20

Date: 07/21/20

Date:

Time: 930

Time:

Time:

Received by:

Received by:

Received by:

Date:

Date:

Date:

Time:

Time:

Time:

Date: 7/21/20

Time: 9:30

Laboratory Comments:
Sample Containers:
VOCs Free of Headspace?
Custody seals on container(s)
Labels on container(s)
Sample Hand Delivered
by Sampler/Client Rep. ✓
by Courier? UPS DHL FedEx
Temperature Upon Receipt: 58 °C
Adjusted: 60 °C Factor

LMD CL 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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G23001



NELAP/TCEQ # T104704516-17-8

Report Date: 07/30/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-42 @ 8'	0G23001-01	Soil	07/22/20 08:52	07-23-2020 09:50
BH-43 @ 8'	0G23001-02	Soil	07/22/20 08:47	07-23-2020 09:50
BH-43 @ 9'	0G23001-03	Soil	07/22/20 12:15	07-23-2020 09:50
BH-44 @ 8'	0G23001-04	Soil	07/22/20 08:45	07-23-2020 09:50
BH-45 @ 3'	0G23001-05	Soil	07/22/20 09:01	07-23-2020 09:50
BH-46 @ 3'	0G23001-06	Soil	07/22/20 09:04	07-23-2020 09:50
BH-47 @ 3'	0G23001-07	Soil	07/22/20 14:14	07-23-2020 09:50
BH-48 @ 3'	0G23001-08	Soil	07/22/20 14:16	07-23-2020 09:50
BH-49 @ 3'	0G23001-09	Soil	07/22/20 14:17	07-23-2020 09:50

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-42 @ 8'
0G23001-01 (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	POG2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	POG2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	POG2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.3 %		75-125	POG2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %		75-125	POG2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	918	11.4	mg/kg dry	10	POG2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	POG2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	POG2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	41.4	28.4	mg/kg dry	1	POG2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	POG2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.9 %		70-130	POG2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %		70-130	POG2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	41.4	28.4	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-43 @ 8'
0G23001-02 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.1 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.8 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1240	11.2	mg/kg dry	10	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-43 @ 9'
0G23001-03 (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

Chloride	623	11.1	mg/kg dry	10	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2401	07/24/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-44 @ 8'
0G23001-04 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.5 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.6 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2080	11.4	mg/kg dry	10	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-45 @ 3'
0G23001-05 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.0 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	891	1.08	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.6 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-46 @ 3'
OG23001-06 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.1 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.1 %		75-125	P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	872	1.09	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	351	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	45.3	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %		70-130	P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	396	27.2	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-47 @ 3'
0G23001-07 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.5 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.5 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	890	1.09	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-48 @ 3'
OG23001-08 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.0 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.5 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	436	1.08	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-49 @ 3'
0G23001-09 (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	P0G2304	07/23/20	07/23/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.0 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.0 %	75-125		P0G2304	07/23/20	07/23/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	367	1.09	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G2401	07/24/20	07/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.1 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0G2307	07/23/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/23/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
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 P0G2304 - General Preparation (GC)**Blank (P0G2304-BLK1)**

Prepared & Analyzed: 07/23/20

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	0.0968		"	0.120		80.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.4	75-125			

LCS (P0G2304-BS1)

Prepared & Analyzed: 07/23/20

Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	80-120			
Toluene	0.0892	0.00100	"	0.100		89.2	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.0911	0.00100	"	0.100		91.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0965		"	0.120		80.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.6	75-125			

LCS Dup (P0G2304-BSD1)

Prepared & Analyzed: 07/23/20

Benzene	0.0999	0.00100	mg/kg wet	0.100		99.9	80-120	7.52	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	16.0	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120	3.38	20	
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120	13.0	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	15.5	20	
Surrogate: 4-Bromofluorobenzene	0.0991		"	0.120		82.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	75-125			

Calibration Blank (P0G2304-CCB1)

Prepared & Analyzed: 07/23/20

Benzene	0.00		mg/kg wet							
Toluene	0.900		"							
Ethylbenzene	0.750		"							
Xylene (p/m)	1.44		"							
Xylene (o)	0.540		"							
Surrogate: 4-Bromofluorobenzene	0.0975		"	0.120		81.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.0	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 Ridge Nose
Project Number: PP-2083
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 P0G2304 - General Preparation (GC)**Calibration Blank (P0G2304-CCB2)**

Prepared & Analyzed: 07/23/20

Benzene	0.310		mg/kg wet							
Toluene	0.960		"							
Ethylbenzene	0.700		"							
Xylene (p/m)	1.41		"							
Xylene (o)	0.530		"							
Surrogate: 4-Bromofluorobenzene	0.0966		"	0.120		80.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.4	75-125			

Calibration Check (P0G2304-CCV1)

Prepared & Analyzed: 07/23/20

Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	80-120			
Toluene	0.0894	0.00100	"	0.100		89.4	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.3	80-120			
Xylene (o)	0.0947	0.00100	"	0.100		94.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	75-125			

Calibration Check (P0G2304-CCV2)

Prepared & Analyzed: 07/23/20

Benzene	0.0977	0.00100	mg/kg wet	0.100		97.7	80-120			
Toluene	0.0932	0.00100	"	0.100		93.2	80-120			
Ethylbenzene	0.0971	0.00100	"	0.100		97.1	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.0960	0.00100	"	0.100		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0963		"	0.120		80.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	75-125			

Calibration Check (P0G2304-CCV3)

Prepared & Analyzed: 07/23/20

Benzene	0.0989	0.00100	mg/kg wet	0.100		98.9	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.0	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 Ridge Nose
Project Number: PP-2083
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 P0G2304 - General Preparation (GC)

Matrix Spike (P0G2304-MS1)	Source: 0G23001-01			Prepared & Analyzed: 07/23/20						
Benzene	0.0854	0.00100	mg/kg dry	0.114	ND	75.2	80-120			QM-07
Toluene	0.0835	0.00100	"	0.114	0.000602	73.0	80-120			QM-07
Ethylbenzene	0.0877	0.00100	"	0.114	ND	77.2	80-120			QM-07
Xylene (p/m)	0.164	0.00200	"	0.227	ND	72.1	80-120			QM-07
Xylene (o)	0.0832	0.00100	"	0.114	ND	73.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.115		"	0.136		84.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.136		94.1	75-125			

Matrix Spike Dup (P0G2304-MSD1)	Source: 0G23001-01			Prepared & Analyzed: 07/23/20						
Benzene	0.0802	0.00100	mg/kg dry	0.114	ND	70.6	80-120	6.27	20	QM-07
Toluene	0.0835	0.00100	"	0.114	0.000602	72.9	80-120	0.0411	20	QM-07
Ethylbenzene	0.0844	0.00100	"	0.114	ND	74.3	80-120	3.84	20	QM-07
Xylene (p/m)	0.161	0.00200	"	0.227	ND	70.7	80-120	1.93	20	QM-07
Xylene (o)	0.0812	0.00100	"	0.114	ND	71.5	80-120	2.42	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.117		"	0.136		85.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.136		93.3	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 Ridge Nose
Project Number: PP-2083
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 P0G2401 - * DEFAULT PREP *****

Blank (P0G2401-BLK1)										
Prepared & Analyzed: 07/24/20										
% Moisture	ND	0.1	%							
Duplicate (P0G2401-DUP1)										
Source: 0G23002-01 Prepared & Analyzed: 07/24/20										
% Moisture	1.0	0.1	%		2.0			66.7	20	

Batch P0G2703 - * DEFAULT PREP *****

Blank (P0G2703-BLK1)										
Prepared & Analyzed: 07/27/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0G2703-BS1)										
Prepared & Analyzed: 07/27/20										
Chloride	375	1.00	mg/kg wet	400		93.8	80-120			
LCS Dup (P0G2703-BSD1)										
Prepared & Analyzed: 07/27/20										
Chloride	367	1.00	mg/kg wet	400		91.8	80-120	2.19	20	
Calibration Check (P0G2703-CCV2)										
Prepared & Analyzed: 07/27/20										
Chloride	19.5		mg/kg	20.0		97.6	0-200			
Calibration Check (P0G2703-CCV3)										
Prepared & Analyzed: 07/27/20										
Chloride	19.0		mg/kg	20.0		94.8	0-200			
Matrix Spike (P0G2703-MS1)										
Source: 0G22008-01 Prepared & Analyzed: 07/27/20										
Chloride	8330	11.1	mg/kg dry	1110	6540	161	80-120			QM-05
Matrix Spike (P0G2703-MS2)										
Source: 0G23001-04 Prepared & Analyzed: 07/27/20										
Chloride	3200	11.4	mg/kg dry	1140	2080	98.7	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 Ridge Nose
Project Number: PP-2083
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 P0G2703 - * DEFAULT PREP *****

Matrix Spike Dup (P0G2703-MSD1)

Source: 0G22008-01

Prepared & Analyzed: 07/27/20

Chloride	7990	11.1	mg/kg dry	1110	6540	131	80-120	4.14	20	QM-05
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Matrix Spike Dup (P0G2703-MSD2)

Source: 0G23001-04

Prepared & Analyzed: 07/27/20

Chloride	3150	11.4	mg/kg dry	1140	2080	94.2	80-120	1.63	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 Ridge Nose
Project Number: PP-2083
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 P0G2307 - TX 1005

Blank (P0G2307-BLK1)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

LCS (P0G2307-BS1)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	919	25.0	mg/kg wet	1000		91.9	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

LCS Dup (P0G2307-BSD1)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125	4.55	20	
>C12-C28	1070	25.0	"	1000		107	75-125	6.01	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Calibration Check (P0G2307-CCV1)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	484	25.0	mg/kg wet	500		96.7	85-115			
>C12-C28	537	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

Calibration Check (P0G2307-CCV2)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	480	25.0	mg/kg wet	500		96.0	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	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 Ridge Nose
Project Number: PP-2083
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 P0G2307 - TX 1005

Calibration Check (P0G2307-CCV3)

Prepared: 07/23/20 Analyzed: 07/24/20

C6-C12	499	25.0	mg/kg wet	500		99.8	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

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.
- 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: 7/30/2020

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

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, TX 79701**



Analytical Report

Prepared for:

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

Project: Plains Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G24001



NELAP/TCEQ # T104704516-17-8

Report Date: 07/30/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-50 @ 3'	0G24001-01	Soil	07/23/20 13:43	07-24-2020 09:46
BH-51 @ 3'	0G24001-02	Soil	07/23/20 13:45	07-24-2020 09:46
BH-52 @ 3'	0G24001-03	Soil	07/23/20 13:47	07-24-2020 09:46
BH-53 @ 3'	0G24001-04	Soil	07/23/20 13:49	07-24-2020 09:46
BH-54 @ 3'	0G24001-05	Soil	07/23/20 13:54	07-24-2020 09:46
BH-55 @ 3'	0G24001-06	Soil	07/23/20 13:53	07-24-2020 09:46
BH-56 @ 3'	0G24001-07	Soil	07/23/20 13:51	07-24-2020 09:46
BH-58 @ 3'	0G24001-08	Soil	07/23/20 13:58	07-24-2020 09:46
BH-59 @ 3'	0G24001-09	Soil	07/23/20 13:59	07-24-2020 09:46
BH-61 @ 3'	0G24001-10	Soil	07/23/20 14:02	07-24-2020 09:46
BH-62 @ 3'	0G24001-11	Soil	07/23/20 14:00	07-24-2020 09:46

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-50 @ 3'
0G24001-01 (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	POG2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	POG2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	POG2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.3 %		75-125	POG2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.2 %		75-125	POG2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1130	1.10	mg/kg dry	1	POG2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	POG2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POG2407	07/24/20	07/24/20	TPH 8015M	
>C12-C28	27.5	27.5	mg/kg dry	1	POG2407	07/24/20	07/24/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POG2407	07/24/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %		70-130	POG2407	07/24/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %		70-130	POG2407	07/24/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27.5	27.5	mg/kg dry	1	[CALC]	07/24/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-51 @ 3'
OG24001-02 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.0 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.1 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	634	1.05	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0G2407	07/24/20	07/24/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0G2407	07/24/20	07/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0G2407	07/24/20	07/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %		70-130	P0G2407	07/24/20	07/24/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %		70-130	P0G2407	07/24/20	07/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	07/24/20	07/24/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-52 @ 3'
OG24001-03 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.6 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	893	1.12	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		139 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-53 @ 3'
OG24001-04 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.3 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.3 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1250	1.12	mg/kg dry	1	P0G2703	07/27/20	07/27/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %		70-130	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %		70-130	P0G2407	07/24/20	07/25/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-54 @ 3'
0G24001-05 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.5 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.8 %		75-125	P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2730	5.49	mg/kg dry	5	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %		70-130	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %		70-130	P0G2407	07/24/20	07/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-55 @ 3'
0G24001-06 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.6 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.1 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	354	1.11	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-56 @ 3'
0G24001-07 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.0 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	579	1.12	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-58 @ 3'
0G24001-08 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.0 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.5 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	102	1.06	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-59 @ 3'
0G24001-09 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.2 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1350	1.12	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-61 @ 3'
0G24001-10 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.6 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.9 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1020	1.10	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-62 @ 3'
0G24001-11 (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	P0G2406	07/24/20	07/24/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.3 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.6 %	75-125		P0G2406	07/24/20	07/24/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	317	1.10	mg/kg dry	1	P0G2803	07/28/20	07/28/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G2701	07/27/20	07/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	
Surrogate: o-Terphenyl		149 %	70-130		P0G2407	07/24/20	07/25/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/24/20	07/25/20	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 Ridge Nose
Project Number: PP-2083
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 P0G2406 - General Preparation (GC)**Blank (P0G2406-BLK1)**

Prepared & Analyzed: 07/24/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		87.0	75-125			

LCS (P0G2406-BS1)

Prepared & Analyzed: 07/24/20

Benzene	0.0914	0.00100	mg/kg wet	0.100		91.4	80-120			
Toluene	0.0882	0.00200	"	0.100		88.2	80-120			
Ethylbenzene	0.0903	0.00100	"	0.100		90.3	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	80-120			
Xylene (o)	0.0919	0.00100	"	0.100		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.0992		"	0.120		82.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.1	75-125			

LCS Dup (P0G2406-BSD1)

Prepared & Analyzed: 07/24/20

Benzene	0.0955	0.00100	mg/kg wet	0.100		95.5	80-120	4.38	20	
Toluene	0.0964	0.00200	"	0.100		96.4	80-120	8.80	20	
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120	8.76	20	
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	80-120	4.32	20	
Xylene (o)	0.0977	0.00100	"	0.100		97.7	80-120	6.12	20	
Surrogate: 4-Bromofluorobenzene	0.0984		"	0.120		82.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	75-125			

Calibration Blank (P0G2406-CCB1)

Prepared & Analyzed: 07/24/20

Benzene	0.310		mg/kg wet							
Toluene	0.870		"							
Ethylbenzene	0.570		"							
Xylene (p/m)	1.17		"							
Xylene (o)	0.400		"							
Surrogate: 4-Bromofluorobenzene	0.0982		"	0.120		81.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.6	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 Ridge Nose
Project Number: PP-2083
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 P0G2406 - General Preparation (GC)**Calibration Blank (P0G2406-CCB2)**

Prepared & Analyzed: 07/24/20

Benzene	0.00		mg/kg wet							
Toluene	0.830		"							
Ethylbenzene	0.500		"							
Xylene (p/m)	0.940		"							
Xylene (o)	0.330		"							
Surrogate: 4-Bromofluorobenzene	0.0976		"	0.120		81.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.4	75-125			

Calibration Blank (P0G2406-CCB3)

Prepared: 07/24/20 Analyzed: 07/27/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.00		"	0.120			75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.00		"	0.120			75-125			S-GC

Calibration Check (P0G2406-CCV1)

Prepared & Analyzed: 07/24/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	80-120			
Toluene	0.0898	0.00200	"	0.100		89.8	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.3	80-120			
Xylene (o)	0.0928	0.00100	"	0.100		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.0970		"	0.120		80.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.6	75-125			

Calibration Check (P0G2406-CCV2)

Prepared & Analyzed: 07/24/20

Benzene	0.0985	0.00100	mg/kg wet	0.100		98.5	80-120			
Toluene	0.0962	0.00200	"	0.100		96.2	80-120			
Ethylbenzene	0.0998	0.00100	"	0.100		99.8	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.8	80-120			
Xylene (o)	0.0962	0.00100	"	0.100		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0964		"	0.120		80.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	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 Ridge Nose
Project Number: PP-2083
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 P0G2406 - General Preparation (GC)**Calibration Check (P0G2406-CCV3)**

Prepared & Analyzed: 07/24/20

Benzene	0.0957	0.00100	mg/kg wet	0.100		95.7	80-120			
Toluene	0.0963	0.00200	"	0.100		96.3	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.0962		"	0.120		80.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.3	75-125			

Matrix Spike (P0G2406-MS1)

Source: 0G24001-01

Prepared & Analyzed: 07/24/20

Benzene	0.0880	0.00100	mg/kg dry	0.110	ND	80.0	80-120			
Toluene	0.0868	0.00200	"	0.110	ND	79.0	80-120			QM-07
Ethylbenzene	0.105	0.00100	"	0.110	ND	95.6	80-120			
Xylene (p/m)	0.168	0.00200	"	0.220	ND	76.4	80-120			QM-07
Xylene (o)	0.0826	0.00100	"	0.110	ND	75.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.111		"	0.132		84.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.132		91.8	75-125			

Matrix Spike Dup (P0G2406-MSD1)

Source: 0G24001-01

Prepared & Analyzed: 07/24/20

Benzene	0.0867	0.00100	mg/kg dry	0.110	ND	78.9	80-120	1.41	20	QM-07
Toluene	0.0841	0.00200	"	0.110	ND	76.5	80-120	3.14	20	QM-07
Ethylbenzene	0.102	0.00100	"	0.110	ND	92.7	80-120	3.04	20	
Xylene (p/m)	0.164	0.00200	"	0.220	ND	74.5	80-120	2.58	20	QM-07
Xylene (o)	0.0829	0.00100	"	0.110	ND	75.4	80-120	0.279	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.110		"	0.132		83.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.132		93.2	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 Ridge Nose
Project Number: PP-2083
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 P0G2701 - *** DEFAULT PREP ***										
Blank (P0G2701-BLK1)	Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%							
Blank (P0G2701-BLK2)	Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%							
Blank (P0G2701-BLK3)	Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%							
Blank (P0G2701-BLK4)	Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%							
Blank (P0G2701-BLK5)	Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%							
Duplicate (P0G2701-DUP1)	Source: 0G24001-10 Prepared & Analyzed: 07/27/20									
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P0G2701-DUP2)	Source: 0G24002-09 Prepared & Analyzed: 07/27/20									
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P0G2701-DUP3)	Source: 0G24004-05 Prepared & Analyzed: 07/27/20									
% Moisture	8.0	0.1	%		11.0			31.6	20	
Duplicate (P0G2701-DUP4)	Source: 0G24008-03 Prepared & Analyzed: 07/27/20									
% Moisture	ND	0.1	%		1.0			200	20	
Duplicate (P0G2701-DUP5)	Source: 0G24010-09 Prepared & Analyzed: 07/27/20									
% Moisture	11.0	0.1	%		12.0			8.70	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 Ridge Nose
Project Number: PP-2083
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 P0G2701 - * DEFAULT PREP *****

Duplicate (P0G2701-DUP6)		Source: 0G24011-03			Prepared & Analyzed: 07/27/20					
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0G2701-DUP7)		Source: 0G24012-06			Prepared & Analyzed: 07/27/20					
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P0G2701-DUP8)		Source: 0G24015-02			Prepared & Analyzed: 07/27/20					
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P0G2701-DUP9)		Source: 0G24017-07			Prepared & Analyzed: 07/27/20					
% Moisture	4.0	0.1	%		4.0			0.00	20	

Batch P0G2703 - * DEFAULT PREP *****

Blank (P0G2703-BLK1)					Prepared & Analyzed: 07/27/20					
Chloride	ND	1.00	mg/kg wet							
LCS (P0G2703-BS1)					Prepared & Analyzed: 07/27/20					
Chloride	375	1.00	mg/kg wet	400		93.8	80-120			
LCS Dup (P0G2703-BSD1)					Prepared & Analyzed: 07/27/20					
Chloride	367	1.00	mg/kg wet	400		91.8	80-120	2.19	20	
Calibration Check (P0G2703-CCV2)					Prepared & Analyzed: 07/27/20					
Chloride	19.5		mg/kg	20.0		97.6	0-200			
Calibration Check (P0G2703-CCV3)					Prepared & Analyzed: 07/27/20					
Chloride	19.0		mg/kg	20.0		94.8	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 Ridge Nose
Project Number: PP-2083
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 P0G2703 - * DEFAULT PREP *****

Matrix Spike (P0G2703-MS1)		Source: 0G22008-01			Prepared & Analyzed: 07/27/20					
Chloride	8330	11.1	mg/kg dry	1110	6540	161	80-120			QM-05

Matrix Spike (P0G2703-MS2)		Source: 0G23001-04			Prepared & Analyzed: 07/27/20					
Chloride	3200	11.4	mg/kg dry	1140	2080	98.7	80-120			

Matrix Spike Dup (P0G2703-MSD1)		Source: 0G22008-01			Prepared & Analyzed: 07/27/20					
Chloride	7990	11.1	mg/kg dry	1110	6540	131	80-120	4.14	20	QM-05

Matrix Spike Dup (P0G2703-MSD2)		Source: 0G23001-04			Prepared & Analyzed: 07/27/20					
Chloride	3150	11.4	mg/kg dry	1140	2080	94.2	80-120	1.63	20	

Batch P0G2803 - * DEFAULT PREP *****

LCS (P0G2803-BS1)					Prepared & Analyzed: 07/28/20					
Chloride	376	1.00	mg/kg wet	400		93.9	80-120			

LCS Dup (P0G2803-BSD1)					Prepared & Analyzed: 07/28/20					
Chloride	371	1.00	mg/kg wet	400		92.8	80-120	1.15	20	

Calibration Check (P0G2803-CCV1)					Prepared & Analyzed: 07/28/20					
Chloride	19.3		mg/kg	20.0		96.5	0-200			

Calibration Check (P0G2803-CCV2)					Prepared & Analyzed: 07/28/20					
Chloride	19.3		mg/kg	20.0		96.6	0-200			

Calibration Check (P0G2803-CCV3)					Prepared & Analyzed: 07/28/20					
Chloride	19.4		mg/kg	20.0		97.0	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 Ridge Nose
Project Number: PP-2083
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 P0G2803 - *** DEFAULT PREP ***										
Matrix Spike (P0G2803-MS1)		Source: 0G24001-05			Prepared & Analyzed: 07/28/20					
Chloride	3410	5.49	mg/kg dry	549	2730	123	80-120			QM-05
Matrix Spike (P0G2803-MS2)		Source: 0G24002-04			Prepared & Analyzed: 07/28/20					
Chloride	771	1.11	mg/kg dry	556	586	33.3	80-120			QM-05
Matrix Spike Dup (P0G2803-MSD1)		Source: 0G24001-05			Prepared & Analyzed: 07/28/20					
Chloride	3230	5.49	mg/kg dry	549	2730	91.2	80-120	5.28	20	
Matrix Spike Dup (P0G2803-MSD2)		Source: 0G24002-04			Prepared & Analyzed: 07/28/20					
Chloride	779	1.11	mg/kg dry	556	586	34.7	80-120	1.03	20	QM-05

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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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 P0G2407 - TX 1005**Blank (P0G2407-BLK1)**

Prepared & Analyzed: 07/24/20

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	59.2		"	50.0		118	70-130			

LCS (P0G2407-BS1)

Prepared & Analyzed: 07/24/20

C6-C12	990	25.0	mg/kg wet	1000		99.0	75-125			
>C12-C28	1210	25.0	"	1000		121	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	58.5		"	50.0		117	70-130			

LCS Dup (P0G2407-BSD1)

Prepared & Analyzed: 07/24/20

C6-C12	912	25.0	mg/kg wet	1000		91.2	75-125	8.20	20	
>C12-C28	1130	25.0	"	1000		113	75-125	7.35	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

Calibration Check (P0G2407-CCV1)

Prepared & Analyzed: 07/24/20

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

Calibration Check (P0G2407-CCV2)

Prepared: 07/24/20 Analyzed: 07/25/20

C6-C12	483	25.0	mg/kg wet	500		96.6	85-115			
>C12-C28	557	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	55.7		"	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 Ridge Nose
Project Number: PP-2083
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 P0G2407 - TX 1005

Calibration Check (P0G2407-CCV3)

Prepared: 07/24/20 Analyzed: 07/25/20

C6-C12	473	25.0	mg/kg wet	500		94.6	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			

Matrix Spike (P0G2407-MS1)

Source: 0G24008-03

Prepared: 07/24/20 Analyzed: 07/25/20

C6-C12	788	25.3	mg/kg dry	1010	12.8	76.8	75-125			
>C12-C28	979	25.3	"	1010	59.0	91.1	75-125			
Surrogate: 1-Chlorooctane	109		"	101		108	70-130			
Surrogate: o-Terphenyl	55.7		"	50.5		110	70-130			

Matrix Spike Dup (P0G2407-MSD1)

Source: 0G24008-03

Prepared: 07/24/20 Analyzed: 07/25/20

C6-C12	811	25.3	mg/kg dry	1010	12.8	79.0	75-125	2.89	20	
>C12-C28	1000	25.3	"	1010	59.0	93.4	75-125	2.54	20	
Surrogate: 1-Chlorooctane	110		"	101		109	70-130			
Surrogate: o-Terphenyl	56.7		"	50.5		112	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 Ridge Nose
Project Number: PP-2083
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: 7/30/2020

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-886-7235

Project Manager: Toby Kindly

Company Name: Pean Service

Company Address: 12600 WER 91

City/State/Zip: Midland, TX 79707

Telephone No.: 432-230-0920

Fax No.:

Sampler Signature: [Signature]

e-mail:

Toby Kindly
Kindly, Toby
Sylvia Bergstrom
Englebert Swann

Project Name: Pean Ridgeview

Project #: PP-2083

Project Loc: Edly G, NM

PO #: 2020-062

Report Format:

Standard

TRRP

NPDES

ORDER #: 0624001

(lab use only)

LAB # (lab use only)
FIELD CODE
BH-62 @ 3 FT

Beginning Depth: 3'
Ending Depth: 3'
Date Sampled: 07/29/20
Time Sampled: 2:00

Field Filtered:
Total #. of Containers: 1
Ice:
HNO₃:
HCl:
H₂SO₄:
NaOH:
Na₂S₂O₃:
None:
Other (Specify):

Matrix: Soil
DW=Drinking Water SL=Sludge
GW=Groundwater S=Soil/Solid
NP=Non-Potable Specify Other
TPH: TX 1005 TX 1006
Anions (Cl, SO₄, Alkalinity)
BTEX 8021B/5060 or BTEX 8060

ANALYZE FOR:
TCLP:
TOTAL:
TPH 1015 M
Chloride
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
 Standard TAT

Special Instructions:

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by:

Date: 07/29/20
Time: 9:40

Date: 07/29/20
Time: 9:40

Date: 7/29/2020
Time: 9:40

Received by:

Received by:

Received by:

Date: 7/29/2020
Time: 9:40

Date: 7/29/2020
Time: 9:40

Date: 7/29/2020
Time: 9:40

Laboratory Comments:
Sample # 0624001
WOCs: Free of Headspace?
Custody seals on containers?
Temperature Upon Receipt: 20 °C
Adjusted: 20 °C
Sample Hand Delivered by Sampler/Client Rep? N
by Courier? N
UPS N DHL N
FedEx N Lorie Star N
Adjusted: 20 °C

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G27004



NELAP/TCEQ # T104704516-17-8

Report Date: 08/06/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-8 @ 4'	0G27004-01	Soil	07/27/20 10:42	07-27-2020 15:44
EW-5 @ 2'	0G27004-02	Soil	07/27/20 10:50	07-27-2020 15:44
EW-6 @ 4'	0G27004-03	Soil	07/27/20 10:43	07-27-2020 15:44
NW-5 @ 4'	0G27004-04	Soil	07/27/20 10:46	07-27-2020 15:44
SW-5 @ 4'	0G27004-05	Soil	07/27/20 10:44	07-27-2020 15:44

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-8 @ 4'
0G27004-01 (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	POG2805	07/28/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	POG2805	07/28/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG2805	07/28/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	POG2805	07/28/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG2805	07/28/20	07/29/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.8 %		75-125	POG2805	07/28/20	07/29/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.5 %		75-125	POG2805	07/28/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2270	5.43	mg/kg dry	5	POG3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	POG2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		99.0 %		70-130	POG2806	07/28/20	07/29/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		118 %		70-130	POG2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

EW-5 @ 2'
0G27004-02 (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	P0G2805	07/28/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.1 %		75-125	P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %		75-125	P0G2805	07/28/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	111	1.04	mg/kg dry	1	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %		70-130	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

EW-6 @ 4'
0G27004-03 (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	P0G2805	07/28/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.5 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.2 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1400	5.26	mg/kg dry	5	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.4 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

NW-5 @ 4'
0G27004-04 (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	P0G2805	07/28/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	703	1.16	mg/kg dry	1	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

SW-5 @ 4'
0G27004-05 (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	P0G2805	07/28/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.5 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0G2805	07/28/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	790	10.8	mg/kg dry	10	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.4 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2805 - General Preparation (GC)**Blank (P0G2805-BLK1)**

Prepared & Analyzed: 07/28/20

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	0.103		"	0.120		85.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.1	75-125			

LCS (P0G2805-BS1)

Prepared & Analyzed: 07/28/20

Benzene	0.0883	0.00100	mg/kg wet	0.100		88.3	80-120			
Toluene	0.0860	0.00100	"	0.100		86.0	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200		85.0	80-120			
Xylene (o)	0.0897	0.00100	"	0.100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.5	75-125			

LCS Dup (P0G2805-BSD1)

Prepared & Analyzed: 07/28/20

Benzene	0.0986	0.00100	mg/kg wet	0.100		98.6	80-120	11.0	20	
Toluene	0.0885	0.00100	"	0.100		88.5	80-120	2.87	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120	2.29	20	
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120	2.61	20	
Xylene (o)	0.0938	0.00100	"	0.100		93.8	80-120	4.46	20	
Surrogate: 4-Bromofluorobenzene	0.0982		"	0.120		81.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	75-125			

Calibration Blank (P0G2805-CCB1)

Prepared & Analyzed: 07/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.690		"							
Xylene (p/m)	1.35		"							
Xylene (o)	0.650		"							
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2805 - General Preparation (GC)**Calibration Blank (P0G2805-CCB2)**

Prepared: 07/28/20 Analyzed: 07/29/20

Benzene	0.00		mg/kg wet							
Toluene	0.680		"							
Ethylbenzene	0.510		"							
Xylene (p/m)	0.810		"							
Xylene (o)	0.310		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	75-125			

Calibration Check (P0G2805-CCV1)

Prepared & Analyzed: 07/28/20

Benzene	0.0916	0.00100	mg/kg wet	0.100		91.6	80-120			
Toluene	0.0922	0.00100	"	0.100		92.2	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.4	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	75-125			

Calibration Check (P0G2805-CCV2)

Prepared: 07/28/20 Analyzed: 07/29/20

Benzene	0.0892	0.00100	mg/kg wet	0.100		89.2	80-120			
Toluene	0.0854	0.00100	"	0.100		85.4	80-120			
Ethylbenzene	0.0923	0.00100	"	0.100		92.3	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.7	80-120			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	75-125			

Calibration Check (P0G2805-CCV3)

Prepared: 07/28/20 Analyzed: 07/29/20

Benzene	0.0884	0.00100	mg/kg wet	0.100		88.4	80-120			
Toluene	0.0866	0.00100	"	0.100		86.6	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		86.9	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	75-125			

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2805 - General Preparation (GC)

Matrix Spike (P0G2805-MS1)

Source: 0G24019-61

Prepared: 07/28/20 Analyzed: 07/29/20

Benzene	0.0800	0.00100	mg/kg dry	0.108	ND	74.4	80-120			QM-07
Toluene	0.0678	0.00100	"	0.108	0.000903	62.2	80-120			QM-07
Ethylbenzene	0.0740	0.00100	"	0.108	0.000505	68.3	80-120			QM-07
Xylene (p/m)	0.0912	0.00200	"	0.215	ND	42.4	80-120			QM-07
Xylene (o)	0.0678	0.00100	"	0.108	ND	63.1	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.115		"	0.129		88.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.129		96.0	75-125			

Matrix Spike Dup (P0G2805-MSD1)

Source: 0G24019-61

Prepared: 07/28/20 Analyzed: 07/29/20

Benzene	0.0794	0.00100	mg/kg dry	0.108	ND	73.8	80-120	0.823	20	QM-07
Toluene	0.0736	0.00100	"	0.108	0.000903	67.6	80-120	8.40	20	QM-07
Ethylbenzene	0.0772	0.00100	"	0.108	0.000505	71.3	80-120	4.34	20	QM-07
Xylene (p/m)	0.0838	0.00200	"	0.215	ND	39.0	80-120	8.41	20	QM-07
Xylene (o)	0.0756	0.00100	"	0.108	ND	70.3	80-120	10.9	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.123		"	0.129		95.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.129		95.9	75-125			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2903 - *** DEFAULT PREP ***										
Blank (P0G2903-BLK1) Prepared & Analyzed: 07/29/20										
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK2) Prepared & Analyzed: 07/29/20										
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK3) Prepared & Analyzed: 07/29/20										
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK4) Prepared & Analyzed: 07/29/20										
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK5) Prepared & Analyzed: 07/29/20										
% Moisture	ND	0.1	%							
Duplicate (P0G2903-DUP1) Source: 0G27005-05 Prepared & Analyzed: 07/29/20										
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G2903-DUP2) Source: 0G27007-09 Prepared & Analyzed: 07/29/20										
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0G2903-DUP3) Source: 0G28001-01 Prepared & Analyzed: 07/29/20										
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P0G2903-DUP4) Source: 0G27007-11 Prepared & Analyzed: 07/29/20										
% Moisture	8.0	0.1	%		13.0			47.6	20	R3
Duplicate (P0G2903-DUP5) Source: 0G28002-02 Prepared & Analyzed: 07/29/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2903 - * DEFAULT PREP *****

Duplicate (P0G2903-DUP6)		Source: 0G28002-12			Prepared & Analyzed: 07/29/20					
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0G2903-DUP7)		Source: 0G28004-05			Prepared & Analyzed: 07/29/20					
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G2903-DUP8)		Source: 0G28006-06			Prepared & Analyzed: 07/29/20					
% Moisture	10.0	0.1	%		9.0			10.5	20	

Batch P0G3107 - * DEFAULT PREP *****

LCS (P0G3107-BS1)					Prepared & Analyzed: 07/31/20					
Chloride	405	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P0G3107-BSD1)					Prepared & Analyzed: 07/31/20					
Chloride	403	1.00	mg/kg wet	400		101	80-120	0.401	20	
Calibration Check (P0G3107-CCV1)					Prepared & Analyzed: 07/31/20					
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P0G3107-CCV2)					Prepared & Analyzed: 07/31/20					
Chloride	20.4		mg/kg	20.0		102	0-200			
Calibration Check (P0G3107-CCV3)					Prepared: 07/31/20 Analyzed: 08/01/20					
Chloride	20.8		mg/kg	20.0		104	0-200			
Matrix Spike (P0G3107-MS1)		Source: 0G24019-74			Prepared & Analyzed: 07/31/20					
Chloride	550	1.01	mg/kg dry	505	93.7	90.3	80-120			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G3107 - * DEFAULT PREP *****

Matrix Spike (P0G3107-MS2)		Source: 0G27005-04			Prepared & Analyzed: 07/31/20					
Chloride	723	1.04	mg/kg dry	521	242	92.3	80-120			
Matrix Spike Dup (P0G3107-MSD1)		Source: 0G24019-74			Prepared & Analyzed: 07/31/20					
Chloride	546	1.01	mg/kg dry	505	93.7	89.6	80-120	0.673	20	
Matrix Spike Dup (P0G3107-MSD2)		Source: 0G27005-04			Prepared & Analyzed: 07/31/20					
Chloride	710	1.04	mg/kg dry	521	242	89.7	80-120	1.86	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 Ridge Nose
Project Number: PP-2083
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 P0G2806 - TX 1005**Blank (P0G2806-BLK1)**

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	68.5		"	50.0		137	70-130			S-GC

LCS (P0G2806-BS1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	896	25.0	mg/kg wet	1000		89.6	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

LCS Dup (P0G2806-BSD1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	979	25.0	mg/kg wet	1000		97.9	75-125	8.83	20	
>C12-C28	1140	25.0	"	1000		114	75-125	7.45	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			

Calibration Check (P0G2806-CCV1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	63.0		"	50.0		126	70-130			

Calibration Check (P0G2806-CCV2)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	512	25.0	mg/kg wet	500		102	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	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 Ridge Nose
Project Number: PP-2083
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 P0G2806 - TX 1005

Calibration Check (P0G2806-CCV3)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	508	25.0	mg/kg wet	500		102	85-115			
>C12-C28	526	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			

Matrix Spike (P0G2806-MS1)

Source: 0G27004-02

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	1190	26.0	mg/kg dry	1040	15.3	112	75-125			
>C12-C28	1250	26.0	"	1040	11.1	119	75-125			
Surrogate: 1-Chlorooctane	106		"	104		102	70-130			
Surrogate: o-Terphenyl	57.0		"	52.1		110	70-130			

Matrix Spike Dup (P0G2806-MSD1)

Source: 0G27004-02

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	1110	26.0	mg/kg dry	1040	15.3	105	75-125	6.38	20	
>C12-C28	1270	26.0	"	1040	11.1	120	75-125	1.45	20	
Surrogate: 1-Chlorooctane	126		"	104		121	70-130			
Surrogate: o-Terphenyl	53.9		"	52.1		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 Ridge Nose
Project Number: PP-2083
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.
- 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: 8/6/2020

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

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12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

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, TX 79701**



Analytical Report

Prepared for:

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

Project: Plains Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0G27007



NELAP/TCEQ # T104704516-17-8

Report Date: 08/06/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-3 @ 1.5'	0G27007-01	Soil	07/24/20 10:50	07-27-2020 15:44
NW-3 @ 1.5'	0G27007-02	Soil	07/24/20 10:54	07-27-2020 15:44
SW-5 @ 1.5'	0G27007-03	Soil	07/24/20 10:56	07-27-2020 15:44
SW-6 @ 1.5'	0G27007-04	Soil	07/24/20 10:58	07-27-2020 15:44
EH-1 @ 1'	0G27007-05	Soil	07/24/20 09:20	07-27-2020 15:44
EH-1 @ 3'	0G27007-06	Soil	07/24/20 09:30	07-27-2020 15:44
EH-1 @ 5'	0G27007-07	Soil	07/24/20 11:34	07-27-2020 15:44
SH-1 @ 1'	0G27007-08	Soil	07/24/20 09:46	07-27-2020 15:44
SH-1 @ 3'	0G27007-09	Soil	07/24/20 09:51	07-27-2020 15:44
SH-1 @ 5'	0G27007-10	Soil	07/24/20 10:04	07-27-2020 15:44
SH-1 @ 7'	0G27007-11	Soil	07/24/20 10:17	07-27-2020 15:44
BG-1	0G27007-12	Soil	07/24/20 11:05	07-27-2020 15:44
BH-57 @ 6'	0G27007-13	Soil	07/24/20 13:19	07-27-2020 15:44
BH-60 @ 5'	0G27007-14	Soil	07/24/20 13:21	07-27-2020 15:44
BH-63 @ 9'	0G27007-15	Soil	07/24/20 13:25	07-27-2020 15:44
BH-64 @ 10'	0G27007-16	Soil	07/24/20 13:29	07-27-2020 15:44
BH-65 @ 10'	0G27007-17	Soil	07/24/20 13:31	07-27-2020 15:44
BH-66 @ 10'	0G27007-18	Soil	07/24/20 13:34	07-27-2020 15:44
NW-4 @ 2'	0G27007-19	Soil	07/24/20 13:37	07-27-2020 15:44
WW-5 @ 5'	0G27007-20	Soil	07/24/20 13:43	07-27-2020 15:44
WW-4 @ 5'	0G27007-21	Soil	07/24/20 13:45	07-27-2020 15:44
WW-6 @ 5'	0G27007-22	Soil	07/24/20 13:41	07-27-2020 15:44
WW-7 @ 5'	0G27007-23	Soil	07/24/20 13:39	07-27-2020 15:44

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-3 @ 1.5'
0G27007-01 (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	POG2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	POG2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	POG2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	POG2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	POG2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.9 %	75-125		POG2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		POG2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3520	5.43	mg/kg dry	5	POG3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	POG2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POG2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.2 %	70-130		POG2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		POG2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

NW-3 @ 1.5'
0G27007-02 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1360	1.04	mg/kg dry	1	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.7 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

SW-5 @ 1.5'
0G27007-03 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	788	1.05	mg/kg dry	1	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.7 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

SW-6 @ 1.5'
0G27007-04 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	0.00107	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7700	10.4	mg/kg dry	10	P0G3107	07/31/20	07/31/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	505	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.5 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	505	26.0	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

EH-1 @ 1'
0G27007-05 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.0 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.9	1.14	mg/kg dry	1	P0G3107	07/31/20	08/01/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	49.9	28.4	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.2 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	49.9	28.4	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

EH-1 @ 3'
0G27007-06 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.0 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.2	1.16	mg/kg dry	1	P0G3107	07/31/20	08/01/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
>C12-C28	80.2	29.1	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
>C28-C35	36.7	29.1	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %	70-130		P0G3108	07/31/20	07/31/20	TPH 8015M	
Surrogate: o-Terphenyl		143 %	70-130		P0G3108	07/31/20	07/31/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	117	29.1	mg/kg dry	1	[CALC]	07/31/20	07/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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EH-1 @ 5'
0G27007-07 (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	13.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G3108	07/31/20	07/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %	70-130		P0G3108	07/31/20	07/31/20	TPH 8015M	
Surrogate: o-Terphenyl		144 %	70-130		P0G3108	07/31/20	07/31/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/31/20	07/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

SH-1 @ 1'
0G27007-08 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	75.7	1.11	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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SH-1 @ 3'
0G27007-09 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	62.3	1.14	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	33.8	28.4	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C12-C28	72.8	28.4	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C28-C35	34.4	28.4	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		147 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	141	28.4	mg/kg dry	1	[CALC]	07/31/20	08/03/20	calc	

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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SH-1 @ 5'
0G27007-10 (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	13.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C12-C28	73.5	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C28-C35	54.2	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		146 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	S-DUP
Surrogate: o-Terphenyl		172 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	S-DUP
Total Petroleum Hydrocarbon C6-C35	128	28.7	mg/kg dry	1	[CALC]	07/31/20	08/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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SH-1 @ 7'
0G27007-11 (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

% Moisture	13.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C12-C28	45.3	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
>C28-C35	35.8	28.7	mg/kg dry	1	P0G3108	07/31/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		137 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	S-DUP
Surrogate: o-Terphenyl		159 %	70-130		P0G3108	07/31/20	08/03/20	TPH 8015M	S-DUP
Total Petroleum Hydrocarbon C6-C35	81.1	28.7	mg/kg dry	1	[CALC]	07/31/20	08/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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BG-1
0G27007-12 (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

Chloride	20.0	1.00	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0G2903	07/29/20	07/29/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-57 @ 6'
0G27007-13 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.0 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1260	10.9	mg/kg dry	10	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-60 @ 5'
0G27007-14 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	0.00107	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	0.00262	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1730	11.6	mg/kg dry	10	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	36.1	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	463	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	70.3	29.1	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	570	29.1	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-63 @ 9'
0G27007-15 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	559	11.0	mg/kg dry	10	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0G2806	07/28/20	07/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/28/20	07/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-64 @ 10'
0G27007-16 (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	P0G2904	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.7 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %	75-125		P0G2904	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.8	1.16	mg/kg dry	1	P0G3112	07/31/20	08/06/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		73.9 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	07/28/20	07/28/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Jeff Kindley	Fax:
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BH-65 @ 10'
0G27007-17 (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	P0G2905	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.8 %		75-125	P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.0 %		75-125	P0G2905	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.7	1.41	mg/kg dry	1	P0G3112	07/31/20	08/06/20	EPA 300.0	
% Moisture	29.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	35.2	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	ND	35.2	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	35.2	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		73.4 %		70-130	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		81.8 %		70-130	P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	35.2	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

BH-66 @ 10'
0G27007-18 (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	P0G2905	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.4 %	75-125		P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P0G2905	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	135	11.4	mg/kg dry	10	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	30.3	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.7 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		84.6 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	30.3	28.4	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

NW-4 @ 2'
0G27007-19 (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	P0G2905	07/29/20	07/29/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.6 %	75-125		P0G2905	07/29/20	07/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0G2905	07/29/20	07/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	51.3	1.14	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	135	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.8 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		87.2 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	135	28.4	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-5 @ 5'
0G27007-20 (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	P0G2905	07/29/20	07/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.2 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	440	1.08	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	183	26.9	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.4 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		86.6 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	183	26.9	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-4 @ 5'
0G27007-21 (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	P0G2905	07/29/20	07/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.8 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.9 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	910	1.06	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		80.6 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		88.6 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-6 @ 5'
0G27007-22 (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	P0G2905	07/29/20	07/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.6 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.4 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	193	1.15	mg/kg dry	1	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.8 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		86.0 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

Fax:

WW-7 @ 5'
0G27007-23 (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	P0G2905	07/29/20	07/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.0 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.0 %	75-125		P0G2905	07/29/20	07/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	565	5.10	mg/kg dry	5	P0G3112	07/31/20	08/01/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0G2903	07/29/20	07/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C12-C28	26.5	25.5	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.1 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Surrogate: o-Terphenyl		85.5 %	70-130		P0G2809	07/28/20	07/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.5	25.5	mg/kg dry	1	[CALC]	07/28/20	07/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2904 - General Preparation (GC)**Blank (P0G2904-BLK1)**

Prepared & Analyzed: 07/29/20

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: 4-Bromofluorobenzene	0.107		"	0.120		88.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	75-125			

LCS (P0G2904-BS1)

Prepared & Analyzed: 07/29/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

LCS Dup (P0G2904-BSD1)

Prepared & Analyzed: 07/29/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120	3.60	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	0.965	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	5.29	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120	0.859	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	1.56	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

Calibration Check (P0G2904-CCV1)

Prepared & Analyzed: 07/29/20

Benzene	0.0815	0.00100	mg/kg wet	0.100		81.5	80-120			
Toluene	0.0867	0.00100	"	0.100		86.7	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.4	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	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 Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2904 - General Preparation (GC)**Calibration Check (P0G2904-CCV2)**

Prepared & Analyzed: 07/29/20

Benzene	0.0842	0.00100	mg/kg wet	0.100		84.2	80-120			
Toluene	0.0899	0.00100	"	0.100		89.9	80-120			
Ethylbenzene	0.0964	0.00100	"	0.100		96.4	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.9	80-120			
Xylene (o)	0.0980	0.00100	"	0.100		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			

Calibration Check (P0G2904-CCV3)

Prepared & Analyzed: 07/29/20

Benzene	0.0874	0.00100	mg/kg wet	0.100		87.4	80-120			
Toluene	0.0874	0.00100	"	0.100		87.4	80-120			
Ethylbenzene	0.0959	0.00100	"	0.100		95.9	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.9	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.7	75-125			

Matrix Spike (P0G2904-MS1)

Source: 0G27005-01

Prepared & Analyzed: 07/29/20

Benzene	0.0714	0.00100	mg/kg dry	0.102	ND	70.0	80-120			QM-05
Toluene	0.0670	0.00100	"	0.102	0.00863	57.2	80-120			QM-05
Ethylbenzene	0.0700	0.00100	"	0.102	0.00900	59.8	80-120			QM-05
Xylene (p/m)	0.105	0.00200	"	0.204	0.0125	45.5	80-120			QM-05
Xylene (o)	0.0472	0.00100	"	0.102	0.00311	43.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.122		83.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.4	75-125			

Matrix Spike Dup (P0G2904-MSD1)

Source: 0G27005-01

Prepared & Analyzed: 07/29/20

Benzene	0.0785	0.00100	mg/kg dry	0.102	ND	77.0	80-120	9.46	20	QM-05
Toluene	0.0789	0.00100	"	0.102	0.00863	68.9	80-120	18.6	20	QM-05
Ethylbenzene	0.0831	0.00100	"	0.102	0.00900	72.7	80-120	19.5	20	QM-05
Xylene (p/m)	0.125	0.00200	"	0.204	0.0125	55.1	80-120	19.2	20	QM-05
Xylene (o)	0.0568	0.00100	"	0.102	0.00311	52.6	80-120	19.7	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.122		83.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.4	75-125			

Permian Basin Environmental Lab, L.P.

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

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2905 - General Preparation (GC)**Blank (P0G2905-BLK1)**

Prepared & Analyzed: 07/29/20

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: 4-Bromofluorobenzene	0.101		"	0.120		83.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			

LCS (P0G2905-BS1)

Prepared & Analyzed: 07/29/20

Benzene	0.0951	0.00100	mg/kg wet	0.100		95.1	80-120			
Toluene	0.0995	0.00100	"	0.100		99.5	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.9	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			

LCS Dup (P0G2905-BSD1)

Prepared & Analyzed: 07/29/20

Benzene	0.0886	0.00100	mg/kg wet	0.100		88.6	80-120	7.05	20	
Toluene	0.0903	0.00100	"	0.100		90.3	80-120	9.70	20	
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120	2.01	20	
Xylene (p/m)	0.179	0.00200	"	0.200		89.3	80-120	8.24	20	
Xylene (o)	0.0938	0.00100	"	0.100		93.8	80-120	9.88	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			

Calibration Check (P0G2905-CCV1)

Prepared & Analyzed: 07/29/20

Benzene	0.0874	0.00100	mg/kg wet	0.100		87.4	80-120			
Toluene	0.0874	0.00100	"	0.100		87.4	80-120			
Ethylbenzene	0.0959	0.00100	"	0.100		95.9	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.9	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.7	75-125			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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 P0G2905 - General Preparation (GC)**Calibration Check (P0G2905-CCV2)**

Prepared: 07/29/20 Analyzed: 07/30/20

Benzene	0.0870	0.00100	mg/kg wet	0.100		87.0	80-120			
Toluene	0.0968	0.00100	"	0.100		96.8	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.3	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		92.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	75-125			

Calibration Check (P0G2905-CCV3)

Prepared: 07/29/20 Analyzed: 07/30/20

Benzene	0.0865	0.00100	mg/kg wet	0.100		86.5	80-120			
Toluene	0.0842	0.00100	"	0.100		84.2	80-120			
Ethylbenzene	0.0892	0.00100	"	0.100		89.2	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.1	80-120			
Xylene (o)	0.0941	0.00100	"	0.100		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.3	75-125			

Matrix Spike (P0G2905-MS1)

Source: 0G27007-17

Prepared: 07/29/20 Analyzed: 07/30/20

Benzene	0.121	0.00100	mg/kg dry	0.141	ND	85.8	80-120			
Toluene	0.116	0.00100	"	0.141	0.000845	81.9	80-120			
Ethylbenzene	0.146	0.00100	"	0.141	ND	104	80-120			
Xylene (p/m)	0.233	0.00200	"	0.282	ND	82.7	80-120			
Xylene (o)	0.120	0.00100	"	0.141	ND	85.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.169		88.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.159		"	0.169		94.3	75-125			

Matrix Spike Dup (P0G2905-MSD1)

Source: 0G27007-17

Prepared: 07/29/20 Analyzed: 07/30/20

Benzene	0.122	0.00100	mg/kg dry	0.141	ND	86.9	80-120	1.35	20	
Toluene	0.115	0.00100	"	0.141	0.000845	80.8	80-120	1.32	20	
Ethylbenzene	0.144	0.00100	"	0.141	ND	102	80-120	1.26	20	
Xylene (p/m)	0.232	0.00200	"	0.282	ND	82.5	80-120	0.266	20	
Xylene (o)	0.121	0.00100	"	0.141	ND	85.8	80-120	0.760	20	
Surrogate: 4-Bromofluorobenzene	0.151		"	0.169		89.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.157		"	0.169		92.6	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 Ridge Nose
Project Number: PP-2083
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 P0G2903 - *** DEFAULT PREP ***										
Blank (P0G2903-BLK1)	Prepared & Analyzed: 07/29/20									
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK2)	Prepared & Analyzed: 07/29/20									
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK3)	Prepared & Analyzed: 07/29/20									
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK4)	Prepared & Analyzed: 07/29/20									
% Moisture	ND	0.1	%							
Blank (P0G2903-BLK5)	Prepared & Analyzed: 07/29/20									
% Moisture	ND	0.1	%							
Duplicate (P0G2903-DUP1)	Source: 0G27005-05 Prepared & Analyzed: 07/29/20									
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G2903-DUP2)	Source: 0G27007-09 Prepared & Analyzed: 07/29/20									
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0G2903-DUP3)	Source: 0G28001-01 Prepared & Analyzed: 07/29/20									
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P0G2903-DUP4)	Source: 0G27007-11 Prepared & Analyzed: 07/29/20									
% Moisture	8.0	0.1	%		13.0			47.6	20	R3
Duplicate (P0G2903-DUP5)	Source: 0G28002-02 Prepared & Analyzed: 07/29/20									
% Moisture	12.0	0.1	%		12.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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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 Ridge Nose
Project Number: PP-2083
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 P0G2903 - * DEFAULT PREP *****

Duplicate (P0G2903-DUP6)		Source: 0G28002-12			Prepared & Analyzed: 07/29/20					
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0G2903-DUP7)		Source: 0G28004-05			Prepared & Analyzed: 07/29/20					
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G2903-DUP8)		Source: 0G28006-06			Prepared & Analyzed: 07/29/20					
% Moisture	10.0	0.1	%		9.0			10.5	20	

Batch P0G3107 - * DEFAULT PREP *****

LCS (P0G3107-BS1)					Prepared & Analyzed: 07/31/20					
Chloride	405	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P0G3107-BSD1)					Prepared & Analyzed: 07/31/20					
Chloride	403	1.00	mg/kg wet	400		101	80-120	0.401	20	
Calibration Check (P0G3107-CCV1)					Prepared & Analyzed: 07/31/20					
Chloride	20.1		mg/kg	20.0		100	0-200			
Calibration Check (P0G3107-CCV2)					Prepared & Analyzed: 07/31/20					
Chloride	20.4		mg/kg	20.0		102	0-200			
Calibration Check (P0G3107-CCV3)					Prepared: 07/31/20 Analyzed: 08/01/20					
Chloride	20.8		mg/kg	20.0		104	0-200			
Matrix Spike (P0G3107-MS1)		Source: 0G24019-74			Prepared & Analyzed: 07/31/20					
Chloride	550	1.01	mg/kg dry	505	93.7	90.3	80-120			

Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Jeff Kindley

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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 P0G3107 - * DEFAULT PREP *******Matrix Spike (P0G3107-MS2)**

Source: 0G27005-04

Prepared & Analyzed: 07/31/20

Chloride	723	1.04	mg/kg dry	521	242	92.3	80-120			
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Matrix Spike Dup (P0G3107-MSD1)

Source: 0G24019-74

Prepared & Analyzed: 07/31/20

Chloride	546	1.01	mg/kg dry	505	93.7	89.6	80-120	0.673	20	
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Matrix Spike Dup (P0G3107-MSD2)

Source: 0G27005-04

Prepared & Analyzed: 07/31/20

Chloride	710	1.04	mg/kg dry	521	242	89.7	80-120	1.86	20	
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Batch P0G3112 - * DEFAULT PREP *******Blank (P0G3112-BLK1)**

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0G3112-BS1)

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	395	1.00	mg/kg wet	400		98.6	80-120			
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LCS Dup (P0G3112-BSD1)

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	399	1.00	mg/kg wet	400		99.6	80-120	1.00	20	
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Calibration Check (P0G3112-CCV1)

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	20.8		mg/kg	20.0		104	0-200			
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Calibration Check (P0G3112-CCV2)

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	20.3		mg/kg	20.0		102	0-200			
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Matrix Spike (P0G3112-MS1)

Source: 0G27007-13

Prepared: 07/31/20 Analyzed: 08/01/20

Chloride	2300	10.9	mg/kg dry	1090	1260	95.4	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 Ridge Nose
Project Number: PP-2083
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 P0G3112 - * DEFAULT PREP *****

Matrix Spike (P0G3112-MS2)		Source: 0G27007-18		Prepared: 07/31/20		Analyzed: 08/01/20				
Chloride	1210	11.4	mg/kg dry	1140	135	94.2	80-120			
Matrix Spike Dup (P0G3112-MSD1)		Source: 0G27007-13		Prepared: 07/31/20		Analyzed: 08/01/20				
Chloride	2480	10.9	mg/kg dry	1090	1260	112	80-120	7.58	20	
Matrix Spike Dup (P0G3112-MSD2)		Source: 0G27007-18		Prepared: 07/31/20		Analyzed: 08/01/20				
Chloride	1290	11.4	mg/kg dry	1140	135	102	80-120	7.12	20	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2806 - TX 1005**Blank (P0G2806-BLK1)**

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	68.5		"	50.0		137	70-130			S-GC

LCS (P0G2806-BS1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	896	25.0	mg/kg wet	1000		89.6	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

LCS Dup (P0G2806-BS1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	979	25.0	mg/kg wet	1000		97.9	75-125	8.83	20	
>C12-C28	1140	25.0	"	1000		114	75-125	7.45	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			

Calibration Check (P0G2806-CCV1)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	63.0		"	50.0		126	70-130			

Calibration Check (P0G2806-CCV2)

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	512	25.0	mg/kg wet	500		102	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2806 - TX 1005**Calibration Check (P0G2806-CCV3)**

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	508	25.0	mg/kg wet	500		102	85-115			
>C12-C28	526	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			

Matrix Spike (P0G2806-MS1)

Source: 0G27004-02

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	1190	26.0	mg/kg dry	1040	15.3	112	75-125			
>C12-C28	1250	26.0	"	1040	11.1	119	75-125			
Surrogate: 1-Chlorooctane	106		"	104		102	70-130			
Surrogate: o-Terphenyl	57.0		"	52.1		110	70-130			

Matrix Spike Dup (P0G2806-MSD1)

Source: 0G27004-02

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	1110	26.0	mg/kg dry	1040	15.3	105	75-125	6.38	20	
>C12-C28	1270	26.0	"	1040	11.1	120	75-125	1.45	20	
Surrogate: 1-Chlorooctane	126		"	104		121	70-130			
Surrogate: o-Terphenyl	53.9		"	52.1		103	70-130			

Batch P0G2809 - TX 1005**Blank (P0G2809-BLK1)**

Prepared & Analyzed: 07/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	87.4		"	100		87.4	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.5	70-130			

LCS (P0G2809-BS1)

Prepared & Analyzed: 07/28/20

C6-C12	877	25.0	mg/kg wet	1000		87.7	75-125			
>C12-C28	964	25.0	"	1000		96.4	75-125			
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.2	70-130			

Permian Basin Environmental Lab, L.P.

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

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G2809 - TX 1005										
LCS Dup (P0G2809-BSD1)										
Prepared & Analyzed: 07/28/20										
C6-C12	823	25.0	mg/kg wet	1000		82.3	75-125	6.28	20	
>C12-C28	902	25.0	"	1000		90.2	75-125	6.58	20	
Surrogate: 1-Chlorooctane	84.5		"	100		84.5	70-130			
Surrogate: o-Terphenyl	42.0		"	50.0		84.0	70-130			
Calibration Check (P0G2809-CCV1)										
Prepared & Analyzed: 07/28/20										
C6-C12	451	25.0	mg/kg wet	500		90.2	85-115			
>C12-C28	479	25.0	"	500		95.8	85-115			
Surrogate: 1-Chlorooctane	82.1		"	100		82.1	70-130			
Surrogate: o-Terphenyl	44.0		"	50.0		88.0	70-130			
Calibration Check (P0G2809-CCV2)										
Prepared & Analyzed: 07/28/20										
C6-C12	479	25.0	mg/kg wet	500		95.8	85-115			
>C12-C28	500	25.0	"	500		99.9	85-115			
Surrogate: 1-Chlorooctane	88.0		"	100		88.0	70-130			
Surrogate: o-Terphenyl	46.9		"	50.0		93.7	70-130			
Calibration Check (P0G2809-CCV3)										
Prepared: 07/28/20 Analyzed: 07/29/20										
C6-C12	483	25.0	mg/kg wet	500		96.6	85-115			
>C12-C28	508	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	89.0		"	100		89.0	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		93.9	70-130			
Matrix Spike (P0G2809-MS1)										
Source: 0G27007-23 Prepared: 07/28/20 Analyzed: 07/29/20										
C6-C12	914	25.5	mg/kg dry	1020	15.1	88.1	75-125			
>C12-C28	979	25.5	"	1020	26.5	93.3	75-125			
Surrogate: 1-Chlorooctane	81.0		"	102		79.4	70-130			
Surrogate: o-Terphenyl	39.2		"	51.0		76.9	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 Ridge Nose
Project Number: PP-2083
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 P0G2809 - TX 1005**Matrix Spike Dup (P0G2809-MSD1)**

Source: 0G27007-23

Prepared: 07/28/20 Analyzed: 07/29/20

C6-C12	883	25.5	mg/kg dry	1020	15.1	85.1	75-125	3.52	20	
>C12-C28	941	25.5	"	1020	26.5	89.6	75-125	4.04	20	
Surrogate: 1-Chlorooctane	78.0		"	102		76.4	70-130			
Surrogate: o-Terphenyl	38.2		"	51.0		74.9	70-130			

Batch P0G3108 - TX 1005**Blank (P0G3108-BLK1)**

Prepared & Analyzed: 07/31/20

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	54.4		"	50.0		109	70-130			

LCS (P0G3108-BS1)

Prepared & Analyzed: 07/31/20

C6-C12	910	25.0	mg/kg wet	1000		91.0	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.5	70-130			

LCS Dup (P0G3108-BSD1)

Prepared & Analyzed: 07/31/20

C6-C12	959	25.0	mg/kg wet	1000		95.9	75-125	5.27	20	
>C12-C28	1140	25.0	"	1000		114	75-125	7.59	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.8	70-130			

Calibration Check (P0G3108-CCV1)

Prepared & Analyzed: 07/31/20

C6-C12	503	25.0	mg/kg wet	500		101	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.3	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0G3108 - TX 1005

Calibration Check (P0G3108-CCV2)

Prepared & Analyzed: 07/31/20

C6-C12	516	25.0	mg/kg wet	500		103	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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.
- S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.
- 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: 8/6/2020

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

249 3

Project Manager: Jay Kinsley

Company Name: Dean Service

Company Address: 12600 WER 91

City/State/Zip: M. Jourd, TX 79707

Telephone No: 432-230-0920

Sampler Signature: [Signature]

Fax No:
e-mail:

ORDER #: 0627007

Project Name: Plum Refinery

Project #: PP-2083

Project Loc: Eddy Co, W/M

PO #: 2020-062

Report Format: Standard TRAP NPDES

Preparation & # of Containers
Ice
HNO₃
HCl
H₂SO₄
NaOH
Na₂S₂O₃
None
Other (Specify)

Matrix
TPH: TX 1005 TX 1006
Anions (Cl, SO₄, Alkalinity)
BTEX 8021B/5030 or BTEX 8260
TPH 8015 M
Chloride

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 ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	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 ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TPH 8015 M	Chloride	Standard TAT
11	SH-1 e 7A Hdd	7'	7'	07/24/20	1017		1	✓														✓
12	B6-1	-	-	07/24/20	1105		1	✓														✓
13	BH-57 e 6Ft	6'	6'	07/24/20	1109		1	✓														✓
14	BH-60 e 5A	5'	5'	07/24/20	121		1	✓														✓
15	BH-63 e 9A	9'	9'	07/24/20	125		1	✓														✓
16	BH-64 e 10A	10'	10'	07/24/20	129		1	✓														✓
17	BH-65 e 10A	10'	10'	07/24/20	131		1	✓														✓
18	BH-66 e 10Ft	10'	10'	07/24/20	134		1	✓														✓
19	MW-4 e 2Ft	2'	2'	07/24/20	137		1	✓														✓
20	MW-5 e 5Ft	5'	5'	07/24/20	143		1	✓														✓

Special Instructions:

Relinquished by: [Signature] Date: 07/27/20 Time: 15:44

Relinquished by: [Signature] Date: Time:

Relinquished by: [Signature] Date: Time:

Received by: [Signature] Date: Time:

Received by: [Signature] Date: Time:

Received by: [Signature] Date: Time:

Laboratory Comments:
Sample Containers Used? Y
VOCs Free of Headspace? Y
Custody seals on containers? Y
Original seals of container? Y
Sample Hand Delivered? Y
by Courier? Y
Temperature Upon Receipt: 56 °C
Adjusted: 56 °C Factor: U-H
EcoEx Y
Lone Star Y

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H05002



NELAP/TCEQ # T104704516-17-8

Report Date: 08/06/20

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-8 @ 5'	0H05002-02	Soil	08/04/20 12:35	08-05-2020 09:10
BH-20 @ 8'	0H05002-03	Soil	08/04/20 12:37	08-05-2020 09:10

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-8 @ 5'
0H05002-02 (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	14.0	0.1	%	1	P0H0601	08/06/20	08/06/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		86.2 %		<i>70-130</i>	<i>P0H0502</i>	<i>08/05/20</i>	<i>08/05/20</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		104 %		<i>70-130</i>	<i>P0H0502</i>	<i>08/05/20</i>	<i>08/05/20</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	08/05/20	08/05/20	calc	

DRAFT REPORT

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-20 @ 8'
0H05002-03 (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	12.0	0.1	%	1	P0H0601	08/06/20	08/06/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.1 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: o-Terphenyl		91.4 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	08/05/20	08/05/20	calc	

DRAFT REPORT

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H0601 - *** DEFAULT PREP ***										
Blank (P0H0601-BLK1) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK2) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK3) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK4) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Duplicate (P0H0601-DUP1) Source: 0H04006-10 Prepared & Analyzed: 08/06/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0H0601-DUP2) Source: 0H05001-07 Prepared & Analyzed: 08/06/20										
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0H0601-DUP3) Source: 0H05003-02 Prepared & Analyzed: 08/06/20										
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H0601-DUP4) Source: 0H05004-04 Prepared & Analyzed: 08/06/20										
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0H0601-DUP5) Source: 0H05005-03 Prepared & Analyzed: 08/06/20										
% Moisture	14.0	0.1	%		15.0			6.90	20	
Duplicate (P0H0601-DUP6) Source: 0H05005-13 Prepared & Analyzed: 08/06/20										
% Moisture	9.0	0.1	%		9.0			0.00	20	

DRAFT REPORT

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 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 P0H0601 - * DEFAULT PREP *****

Duplicate (P0H0601-DUP7)	Source: 0H05011-04			Prepared & Analyzed: 08/06/20						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0H0601-DUP8)	Source: 0H05011-14			Prepared & Analyzed: 08/06/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	

DRAFT REPORT

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H0502 - TX 1005										
Blank (P0H0502-BLK1)										
Prepared & Analyzed: 08/05/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.2		"	100		81.2	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.6	70-130			
LCS (P0H0502-BS1)										
Prepared & Analyzed: 08/05/20										
C6-C12	837	25.0	mg/kg wet	1000		83.7	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	95.8		"	100		95.8	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			
LCS Dup (P0H0502-BSD1)										
Prepared & Analyzed: 08/05/20										
C6-C12	864	25.0	mg/kg wet	1000		86.4	75-125	3.13	20	
>C12-C28	1080	25.0	"	1000		108	75-125	2.44	20	
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			
Calibration Check (P0H0502-CCV1)										
Prepared & Analyzed: 08/05/20										
C6-C12	491	25.0	mg/kg wet	500		98.1	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			
Calibration Check (P0H0502-CCV2)										
Prepared & Analyzed: 08/05/20										
C6-C12	448	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	92.5		"	100		92.5	70-130			
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	70-130			

DRAFT REPORT

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H0502 - TX 1005

Matrix Spike (P0H0502-MS1)

Source: 0H05002-02

Prepared & Analyzed: 08/05/20

C6-C12	1210	29.1	mg/kg dry	1160	ND	104	75-125			
>C12-C28	1440	29.1	"	1160	ND	124	75-125			
Surrogate: 1-Chlorooctane	132		"	116		114	70-130			
Surrogate: o-Terphenyl	59.4		"	58.1		102	70-130			

Matrix Spike Dup (P0H0502-MSD1)

Source: 0H05002-02

Prepared & Analyzed: 08/05/20

C6-C12	1230	29.1	mg/kg dry	1160	ND	106	75-125	1.84	20	
>C12-C28	1370	29.1	"	1160	ND	117	75-125	5.25	20	
Surrogate: 1-Chlorooctane	135		"	116		116	70-130			
Surrogate: o-Terphenyl	60.0		"	58.1		103	70-130			

DRAFT REPORT

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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: 8/6/2020

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.

DRAFT REPORT

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

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H05002



NELAP/TCEQ # T104704516-17-8

Report Date: 08/13/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-1 Surface	0H05002-01	Soil	07/24/20 14:32	08-05-2020 09:10
BH-8 @ 5'	0H05002-02	Soil	08/04/20 12:35	08-05-2020 09:10
BH-20 @ 8'	0H05002-03	Soil	08/04/20 12:37	08-05-2020 09:10

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
---	---	------

**WH-1 Surface
0H05002-01 (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

Chloride	2380	11.5	mg/kg dry	10	POH1102	08/11/20	08/12/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	POH0601	08/06/20	08/06/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
---	---	------

BH-8 @ 5'
0H05002-02 (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	14.0	0.1	%	1	P0H0601	08/06/20	08/06/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.2 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	08/05/20	08/05/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
---	---	------

BH-20 @ 8'
0H05002-03 (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	12.0	0.1	%	1	P0H0601	08/06/20	08/06/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.1 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Surrogate: o-Terphenyl		91.4 %		70-130	P0H0502	08/05/20	08/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	08/05/20	08/05/20	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H0601 - *** DEFAULT PREP ***										
Blank (P0H0601-BLK1) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK2) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK3) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Blank (P0H0601-BLK4) Prepared & Analyzed: 08/06/20										
% Moisture	ND	0.1	%							
Duplicate (P0H0601-DUP1) Source: 0H04006-10 Prepared & Analyzed: 08/06/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0H0601-DUP2) Source: 0H05001-07 Prepared & Analyzed: 08/06/20										
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0H0601-DUP3) Source: 0H05003-02 Prepared & Analyzed: 08/06/20										
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H0601-DUP4) Source: 0H05004-04 Prepared & Analyzed: 08/06/20										
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0H0601-DUP5) Source: 0H05005-03 Prepared & Analyzed: 08/06/20										
% Moisture	14.0	0.1	%		15.0			6.90	20	
Duplicate (P0H0601-DUP6) Source: 0H05005-13 Prepared & Analyzed: 08/06/20										
% Moisture	9.0	0.1	%		9.0			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 Ridge Nose
Project Number: PP-2083
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 P0H0601 - * DEFAULT PREP *****

Duplicate (P0H0601-DUP7)		Source: 0H05011-04			Prepared & Analyzed: 08/06/20					
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0H0601-DUP8)		Source: 0H05011-14			Prepared & Analyzed: 08/06/20					
% Moisture	2.0	0.1	%		2.0			0.00	20	

Batch P0H1102 - * DEFAULT PREP *****

Blank (P0H1102-BLK1)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0H1102-BS1)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	395	1.00	mg/kg wet	400		98.8	80-120			
LCS Dup (P0H1102-BSD1)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	399	1.00	mg/kg wet	400		99.6	80-120	0.849	20	
Calibration Blank (P0H1102-CCB1)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0H1102-CCB2)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0H1102-CCV1)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	19.1		mg/kg	20.0		95.6	0-200			
Calibration Check (P0H1102-CCV2)		Prepared: 08/11/20 Analyzed: 08/12/20								
Chloride	19.0		mg/kg	20.0		94.8	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 Ridge Nose
Project Number: PP-2083
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 P0H1102 - *** DEFAULT PREP ***										
Calibration Check (P0H1102-CCV3)				Prepared: 08/11/20 Analyzed: 08/13/20						
Chloride	19.0		mg/kg	20.0		95.1	0-200			
Matrix Spike (P0H1102-MS1)				Source: 0H04006-11 Prepared: 08/11/20 Analyzed: 08/12/20						
Chloride	984	1.18	mg/kg dry	588	338	110	80-120			
Matrix Spike (P0H1102-MS2)				Source: 0H05004-09 Prepared: 08/11/20 Analyzed: 08/13/20						
Chloride	1470	5.56	mg/kg dry	556	923	98.8	80-120			
Matrix Spike Dup (P0H1102-MSD1)				Source: 0H04006-11 Prepared: 08/11/20 Analyzed: 08/12/20						
Chloride	934	1.18	mg/kg dry	588	338	101	80-120	5.15	20	
Matrix Spike Dup (P0H1102-MSD2)				Source: 0H05004-09 Prepared: 08/11/20 Analyzed: 08/12/20						
Chloride	1470	5.56	mg/kg dry	556	923	98.2	80-120	0.234	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 Ridge Nose
Project Number: PP-2083
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 P0H0502 - TX 1005										
Blank (P0H0502-BLK1)										
Prepared & Analyzed: 08/05/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.2		"	100		81.2	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.6	70-130			
LCS (P0H0502-BS1)										
Prepared & Analyzed: 08/05/20										
C6-C12	837	25.0	mg/kg wet	1000		83.7	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	95.8		"	100		95.8	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			
LCS Dup (P0H0502-BSD1)										
Prepared & Analyzed: 08/05/20										
C6-C12	864	25.0	mg/kg wet	1000		86.4	75-125	3.13	20	
>C12-C28	1080	25.0	"	1000		108	75-125	2.44	20	
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			
Calibration Check (P0H0502-CCV1)										
Prepared & Analyzed: 08/05/20										
C6-C12	491	25.0	mg/kg wet	500		98.1	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			
Calibration Check (P0H0502-CCV2)										
Prepared & Analyzed: 08/05/20										
C6-C12	448	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	92.5		"	100		92.5	70-130			
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	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 Ridge Nose
Project Number: PP-2083
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 P0H0502 - TX 1005

Matrix Spike (P0H0502-MS1)

Source: 0H05002-02

Prepared & Analyzed: 08/05/20

C6-C12	1210	29.1	mg/kg dry	1160	ND	104	75-125			
>C12-C28	1440	29.1	"	1160	ND	124	75-125			
Surrogate: 1-Chlorooctane	132		"	116		114	70-130			
Surrogate: o-Terphenyl	59.4		"	58.1		102	70-130			

Matrix Spike Dup (P0H0502-MSD1)

Source: 0H05002-02

Prepared & Analyzed: 08/05/20

C6-C12	1230	29.1	mg/kg dry	1160	ND	106	75-125	1.84	20	
>C12-C28	1370	29.1	"	1160	ND	117	75-125	5.25	20	
Surrogate: 1-Chlorooctane	135		"	116		116	70-130			
Surrogate: o-Terphenyl	60.0		"	58.1		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 Ridge Nose
Project Number: PP-2083
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: 8/13/2020

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

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H06005



NELAP/TCEQ # T104704516-17-8

Report Date: 08/10/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-22 @ 4'	0H06005-01	Soil	08/05/20 12:02	08-06-2020 10:50
BH-24 @ 4'	0H06005-02	Soil	08/05/20 12:04	08-06-2020 10:50
BH-25 @ 4'	0H06005-03	Soil	08/05/20 12:07	08-06-2020 10:50
BH-31 @ 4'	0H06005-04	Soil	08/05/20 12:10	08-06-2020 10:50
BH-34 @ 4'	0H06005-05	Soil	08/05/20 12:12	08-06-2020 10:50
BH-35 @ 4'	0H06005-06	Soil	08/05/20 14:04	08-06-2020 10:50
BH-46 @ 4'	0H06005-07	Soil	08/05/20 14:08	08-06-2020 10:50
NE WALL @ 1.5'	0H06005-08	Soil	08/05/20 12:20	08-06-2020 10:50
EW-3 @ 1.5'	0H06005-09	Soil	08/05/20 12:14	08-06-2020 10:50
EW-4 @ 1.5'	0H06005-10	Soil	08/05/20 12:16	08-06-2020 10:50
NW-2 @ 1.5'	0H06005-11	Soil	08/05/20 12:22	08-06-2020 10:50

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-22 @ 4'
0H06005-01 (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	10.0	0.1	%	1	POH0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		POH0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-24 @ 4'
0H06005-02 (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	11.0	0.1	%	1	POH0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %		70-130	POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %		70-130	POH0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-25 @ 4'
0H06005-03 (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	10.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-31 @ 4'
0H06005-04 (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	12.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.1 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-34 @ 4'
0H06005-05 (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	10.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-35 @ 4'
0H06005-06 (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	11.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.6 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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BH-46 @ 4'
0H06005-07 (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	8.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.8 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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NE WALL @ 1.5'
OH06005-08 (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	POH0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %		70-130	POH0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %		70-130	POH0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	08/07/20	08/08/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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EW-3 @ 1.5'
0H06005-09 (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	9.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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EW-4 @ 1.5'
0H06005-10 (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	9.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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NW-2 @ 1.5'
0H06005-11 (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

% Moisture	11.0	0.1	%	1	P0H0701	08/07/20	08/07/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.1 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %		70-130	P0H0706	08/07/20	08/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	08/07/20	08/08/20	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 Ridge Nose
Project Number: PP-2083
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 P0H0701 - *** DEFAULT PREP ***										
Blank (P0H0701-BLK1) Prepared & Analyzed: 08/07/20										
% Moisture	ND	0.1	%							
Blank (P0H0701-BLK2) Prepared & Analyzed: 08/07/20										
% Moisture	ND	0.1	%							
Blank (P0H0701-BLK3) Prepared & Analyzed: 08/07/20										
% Moisture	ND	0.1	%							
Duplicate (P0H0701-DUP1) Source: 0H06003-01 Prepared & Analyzed: 08/07/20										
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P0H0701-DUP2) Source: 0H06005-02 Prepared & Analyzed: 08/07/20										
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0H0701-DUP3) Source: 0H06008-01 Prepared & Analyzed: 08/07/20										
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0H0701-DUP4) Source: 0H06010-07 Prepared & Analyzed: 08/07/20										
% Moisture	5.0	0.1	%		6.0			18.2	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 Ridge Nose
Project Number: PP-2083
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 P0H0706 - TX 1005

Blank (P0H0706-BLK1)

Prepared & Analyzed: 08/07/20

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	59.3		"	50.0		119	70-130			

LCS (P0H0706-BS1)

Prepared & Analyzed: 08/07/20

C6-C12	961	25.0	mg/kg wet	1000		96.1	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			

LCS Dup (P0H0706-BSD1)

Prepared & Analyzed: 08/07/20

C6-C12	960	25.0	mg/kg wet	1000		96.0	75-125	0.137	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.174	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			

Calibration Check (P0H0706-CCV1)

Prepared & Analyzed: 08/07/20

C6-C12	499	25.0	mg/kg wet	500		99.8	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Calibration Check (P0H0706-CCV2)

Prepared: 08/07/20 Analyzed: 08/08/20

C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	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 Ridge Nose
Project Number: PP-2083
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 P0H0706 - TX 1005

Calibration Check (P0H0706-CCV3)

Prepared: 08/07/20 Analyzed: 08/08/20

C6-C12	474	25.0	mg/kg wet	500		94.8	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

Matrix Spike (P0H0706-MS1)

Source: 0H06005-11

Prepared: 08/07/20 Analyzed: 08/08/20

C6-C12	1150	28.1	mg/kg dry	1120	21.6	101	75-125			
>C12-C28	1370	28.1	"	1120	10.8	121	75-125			
Surrogate: 1-Chlorooctane	115		"	112		102	70-130			
Surrogate: o-Terphenyl	74.7		"	56.2		133	70-130			S-GC

Matrix Spike Dup (P0H0706-MSD1)

Source: 0H06005-11

Prepared: 08/07/20 Analyzed: 08/08/20

C6-C12	1200	28.1	mg/kg dry	1120	21.6	105	75-125	4.28	20	
>C12-C28	1370	28.1	"	1120	10.8	121	75-125	0.192	20	
Surrogate: 1-Chlorooctane	120		"	112		107	70-130			
Surrogate: o-Terphenyl	78.4		"	56.2		140	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 Ridge Nose
Project Number: PP-2083
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: 8/10/2020

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

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H10005



Current Certification

Report Date: 08/20/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-2 @ 4'	0H10005-01	Soil	08/07/20 13:17	08-10-2020 11:08
EW-2 @ 4'	0H10005-02	Soil	08/07/20 13:25	08-10-2020 11:08
Pump West Wall @ 4'	0H10005-03	Soil	08/07/20 13:40	08-10-2020 11:08
BH-67 @ 7'	0H10005-04	Soil	08/07/20 10:15	08-10-2020 11:08
SW-7 @ 3.5'	0H10005-05	Soil	08/07/20 10:25	08-10-2020 11:08
NW-6 @ 3.5'	0H10005-06	Soil	08/07/20 10:21	08-10-2020 11:08
WW-9 @ 3.5'	0H10005-07	Soil	08/07/20 10:31	08-10-2020 11:08
EW-7 @ 3.5'	0H10005-08	Soil	08/07/20 10:18	08-10-2020 11:08

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-2 @ 4'
0H10005-01 (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	11.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 08:38	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 08:38	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 08:38	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		POH1012	08/10/20 15:56	08/11/20 08:38	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		POH1012	08/10/20 15:56	08/11/20 08:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 08:38	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-2 @ 4'
OH10005-02 (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	0.00377	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
Toluene	0.0199	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
Ethylbenzene	0.00582	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
Xylene (p/m)	0.0193	0.00200	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
Xylene (o)	0.00453	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.9 %		75-125	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		90.3 %		75-125	POH1013	08/10/20 16:10	08/11/20 10:12	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	13.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:02	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:02	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:02	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:02	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		119 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 09:02	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

Pump West Wall @ 4'
OH10005-03 (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	25.3	0.500	mg/kg dry	500	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	
Toluene	71.4	0.500	mg/kg dry	500	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	
Ethylbenzene	46.6	0.500	mg/kg dry	500	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	
Xylene (p/m)	133	1.00	mg/kg dry	500	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	
Xylene (o)	46.4	0.500	mg/kg dry	500	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		69.9 %		75-125	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		91.8 %		75-125	POH1013	08/10/20 16:10	08/11/20 11:34	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.5	1.19	mg/kg dry	1	POH1410	08/14/20 21:11	08/17/20 14:06	EPA 300.0	
% Moisture	16.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	7530	298	mg/kg dry	10	POH1012	08/10/20 15:56	08/11/20 09:26	TPH 8015M	
>C12-C28	11800	298	mg/kg dry	10	POH1012	08/10/20 15:56	08/11/20 09:26	TPH 8015M	
>C28-C35	2000	298	mg/kg dry	10	POH1012	08/10/20 15:56	08/11/20 09:26	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		121 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:26	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		128 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	21300	298	mg/kg dry	10	[CALC]	08/10/20 15:56	08/11/20 09:26	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-67 @ 7'
OH10005-04 (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	0.00162	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
Toluene	0.00527	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
Ethylbenzene	0.00339	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
Xylene (p/m)	0.0134	0.00200	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
Xylene (o)	0.00313	0.00100	mg/kg dry	1	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.3 %		75-125	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		91.2 %		75-125	POH1013	08/10/20 16:10	08/11/20 10:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	56.2	28.1	mg/kg dry	25	POH1410	08/14/20 21:11	08/16/20 12:59	EPA 300.0	
% Moisture	11.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:49	TPH 8015M	
>C12-C28	33.9	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:49	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 09:49	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:49	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		120 %		70-130	POH1012	08/10/20 15:56	08/11/20 09:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	33.9	28.1	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 09:49	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-7 @ 3.5'
OH10005-05 (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	0.00190	0.00100	mg/kg dry	1	P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Toluene	0.00162	0.00100	mg/kg dry	1	P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Xylene (p/m)	0.00200	0.00200	mg/kg dry	1	P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P0H1013	08/10/20 16:10	08/11/20 11:13	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.87	1.15	mg/kg dry	1	P0H1410	08/14/20 21:11	08/17/20 14:22	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0H1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0H1012	08/10/20 15:56	08/11/20 10:13	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0H1012	08/10/20 15:56	08/11/20 10:13	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0H1012	08/10/20 15:56	08/11/20 10:13	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0H1012	08/10/20 15:56	08/11/20 10:13	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0H1012	08/10/20 15:56	08/11/20 10:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 10:13	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NW-6 @ 3.5'
OH10005-06 (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	0.00167	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.7 %		75-125	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.5 %		75-125	POH1108	08/11/20 14:58	08/11/20 23:00	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.2	1.15	mg/kg dry	1	POH1410	08/14/20 21:11	08/17/20 15:09	EPA 300.0	
% Moisture	13.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 10:36	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 10:36	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 10:36	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %		70-130	POH1012	08/10/20 15:56	08/11/20 10:36	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	POH1012	08/10/20 15:56	08/11/20 10:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 10:36	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

WW-9 @ 3.5'
OH10005-07 (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	0.00129	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.0 %	75-125		POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.7 %	75-125		POH1108	08/11/20 14:58	08/11/20 23:20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.32	1.15	mg/kg dry	1	POH1410	08/14/20 21:11	08/17/20 15:25	EPA 300.0	
% Moisture	13.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:00	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:00	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:00	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		POH1012	08/10/20 15:56	08/11/20 11:00	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		POH1012	08/10/20 15:56	08/11/20 11:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 11:00	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-7 @ 3.5'
OH10005-08 (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	0.00134	0.00108	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Toluene	0.00227	0.00108	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.2 %		75-125	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %		75-125	POH1108	08/11/20 14:58	08/11/20 23:41	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.4	1.08	mg/kg dry	1	POH1410	08/14/20 21:11	08/17/20 15:41	EPA 300.0	
% Moisture	7.0	0.1	%	1	POH1101	08/11/20 09:56	08/11/20 10:04	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:23	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:23	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	POH1012	08/10/20 15:56	08/11/20 11:23	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %		70-130	POH1012	08/10/20 15:56	08/11/20 11:23	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	POH1012	08/10/20 15:56	08/11/20 11:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	08/10/20 15:56	08/11/20 11:23	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 Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)**Blank (P0H1108-BLK1)**

Prepared & Analyzed: 08/11/20

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	0.0977		"	0.120		81.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	75-125			

LCS (P0H1108-BS1)

Prepared & Analyzed: 08/11/20

Benzene	0.0985	0.00100	mg/kg wet	0.100		98.5	70-130			
Toluene	0.0952	0.00100	"	0.100		95.2	70-130			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	70-130			
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	70-130			
Xylene (o)	0.0976	0.00100	"	0.100		97.6	70-130			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	75-125			

LCS Dup (P0H1108-BS1)

Prepared & Analyzed: 08/11/20

Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	70-130	6.13	20	
Toluene	0.0942	0.00100	"	0.100		94.2	70-130	1.16	20	
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	70-130	1.08	20	
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	70-130	2.58	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130	3.40	20	
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0979		"	0.120		81.6	75-125			

Calibration Check (P0H1108-CCV1)

Prepared & Analyzed: 08/11/20

Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	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 Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)**Calibration Check (P0H1108-CCV2)**

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0982		"	0.120		81.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		87.1	75-125			

Calibration Check (P0H1108-CCV3)

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0994	0.00100	"	0.100		99.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.5	75-125			

Matrix Spike (P0H1108-MS1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0915	0.00116	mg/kg dry	0.116	0.00106	77.8	80-120			QM-05
Toluene	0.0966	0.00116	"	0.116	0.00377	79.8	80-120			QM-05
Ethylbenzene	0.113	0.00116	"	0.116	0.00306	94.9	80-120			
Xylene (p/m)	0.183	0.00233	"	0.233	0.0141	72.8	80-120			QM-05
Xylene (o)	0.0861	0.00116	"	0.116	0.00327	71.2	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.132		"	0.140		94.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.140		88.4	75-125			

Matrix Spike Dup (P0H1108-MSD1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0938	0.00116	mg/kg dry	0.116	0.00106	79.8	80-120	2.47	20	QM-05
Toluene	0.0899	0.00116	"	0.116	0.00377	74.1	80-120	7.48	20	QM-05
Ethylbenzene	0.106	0.00116	"	0.116	0.00306	88.3	80-120	7.21	20	
Xylene (p/m)	0.178	0.00233	"	0.233	0.0141	70.6	80-120	2.99	20	QM-05
Xylene (o)	0.0836	0.00116	"	0.116	0.00327	69.1	80-120	3.05	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.128		"	0.140		92.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.140		91.0	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 Ridge Nose
Project Number: PP-2083
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 P0H1013 - General Preparation (GC)**Blank (P0H1013-BLK1)**

Prepared: 08/10/20 Analyzed: 08/11/20

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	0.102		"	0.120		84.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.1	75-125			

LCS (P0H1013-BS1)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0947	0.00100	mg/kg wet	0.100		94.7	80-120			
Toluene	0.0971	0.00100	"	0.100		97.1	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	75-125			

LCS Dup (P0H1013-BSD1)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0901	0.00100	mg/kg wet	0.100		90.1	80-120	5.04	20	
Toluene	0.0902	0.00100	"	0.100		90.2	80-120	7.31	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120	1.25	20	
Xylene (p/m)	0.185	0.00200	"	0.200		92.7	80-120	4.84	20	
Xylene (o)	0.0967	0.00100	"	0.100		96.7	80-120	5.80	20	
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	75-125			

Calibration Blank (P0H1013-CCB1)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.320		"							
Ethylbenzene	0.340		"							
Xylene (p/m)	0.600		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.8	75-125			

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Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1013 - General Preparation (GC)**Calibration Blank (P0H1013-CCB2)**

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.510		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.500		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.1	75-125			

Calibration Check (P0H1013-CCV1)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0996	0.00100	mg/kg wet	0.100		99.6	80-120			
Toluene	0.0931	0.00100	"	0.100		93.1	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	75-125			

Calibration Check (P0H1013-CCV2)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Ethylbenzene	0.0976	0.00100	"	0.100		97.6	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		93.2	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	75-125			

Calibration Check (P0H1013-CCV3)

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0970	0.00100	mg/kg wet	0.100		97.0	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	75-125			

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Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1013 - General Preparation (GC)**Matrix Spike (P0H1013-MS1)****Source: 0H10002-46**

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0848	0.00100	mg/kg dry	0.111	ND	76.4	80-120			QM-05
Toluene	0.0688	0.00100	"	0.111	ND	61.9	80-120			QM-05
Ethylbenzene	0.0827	0.00100	"	0.111	ND	74.4	80-120			QM-05
Xylene (p/m)	0.131	0.00200	"	0.222	ND	59.1	80-120			QM-05
Xylene (o)	0.0749	0.00100	"	0.111	ND	67.4	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.119		"	0.133		89.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.133		93.6	75-125			

Matrix Spike Dup (P0H1013-MSD1)**Source: 0H10002-46**

Prepared: 08/10/20 Analyzed: 08/11/20

Benzene	0.0872	0.00100	mg/kg dry	0.111	ND	78.5	80-120	2.79	20	QM-05
Toluene	0.0751	0.00100	"	0.111	ND	67.6	80-120	8.77	20	QM-05
Ethylbenzene	0.0954	0.00100	"	0.111	ND	85.9	80-120	14.3	20	
Xylene (p/m)	0.149	0.00200	"	0.222	ND	67.0	80-120	12.5	20	QM-05
Xylene (o)	0.0853	0.00100	"	0.111	ND	76.8	80-120	13.0	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.131		"	0.133		98.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.133		94.8	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 Ridge Nose
Project Number: PP-2083
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 P0H1101 - *** DEFAULT PREP ***										
Blank (P0H1101-BLK1) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK2) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK3) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK4) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK5) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK6) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK7) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Blank (P0H1101-BLK8) Prepared & Analyzed: 08/11/20										
% Moisture	ND	0.1	%							
Duplicate (P0H1101-DUP1) Source: 0H10001-02 Prepared & Analyzed: 08/11/20										
% Moisture	5.0	0.1	%		4.0			22.2	20	R1
Duplicate (P0H1101-DUP2) Source: 0H10001-12 Prepared & Analyzed: 08/11/20										
% Moisture	3.0	0.1	%		4.0			28.6	20	R1

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1101 - *** DEFAULT PREP ***										
Duplicate (P0H1101-DUP3)	Source: 0H10002-06			Prepared & Analyzed: 08/11/20						
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P0H1101-DUP4)	Source: 0H10002-16			Prepared & Analyzed: 08/11/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0H1101-DUP5)	Source: 0H10002-31			Prepared & Analyzed: 08/11/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H1101-DUP6)	Source: 0H10002-41			Prepared & Analyzed: 08/11/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0H1101-DUP7)	Source: 0H10003-06			Prepared & Analyzed: 08/11/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0H1101-DUP8)	Source: 0H10003-16			Prepared & Analyzed: 08/11/20						
% Moisture	22.0	0.1	%		21.0			4.65	20	
Duplicate (P0H1101-DUP9)	Source: 0H10003-31			Prepared & Analyzed: 08/11/20						
% Moisture	8.0	0.1	%		9.0			11.8	20	
Duplicate (P0H1101-DUPA)	Source: 0H10003-41			Prepared & Analyzed: 08/11/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H1101-DUPB)	Source: 0H10003-56			Prepared & Analyzed: 08/11/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H1101-DUPC)	Source: 0H10003-66			Prepared & Analyzed: 08/11/20						
% Moisture	11.0	0.1	%		11.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1101 - * DEFAULT PREP *****

Duplicate (P0H1101-DUPD)		Source: 0H10003-81			Prepared & Analyzed: 08/11/20					
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0H1101-DUPE)		Source: 0H10003-91			Prepared & Analyzed: 08/11/20					
% Moisture	15.0	0.1	%		16.0			6.45	20	

Batch P0H1410 - * DEFAULT PREP *****

LCS (P0H1410-BS1)		Prepared: 08/14/20 Analyzed: 08/16/20								
Chloride	329	1.00	mg/kg wet	400		82.2	80-120			
LCS Dup (P0H1410-BSD1)		Prepared: 08/14/20 Analyzed: 08/16/20								
Chloride	344	1.00	mg/kg wet	400		86.0	80-120	4.52	20	
Calibration Check (P0H1410-CCV1)		Prepared: 08/14/20 Analyzed: 08/16/20								
Chloride	16.8		mg/kg	20.0		83.9	0-200			
Calibration Check (P0H1410-CCV2)		Prepared: 08/14/20 Analyzed: 08/16/20								
Chloride	18.2		mg/kg	20.0		91.0	0-200			
Calibration Check (P0H1410-CCV3)		Prepared: 08/14/20 Analyzed: 08/16/20								
Chloride	16.9		mg/kg	20.0		84.5	0-200			
Matrix Spike (P0H1410-MS1)		Source: 0H11002-02			Prepared: 08/14/20 Analyzed: 08/16/20					
Chloride	2800	10.2	mg/kg dry	1020	1770	101	80-120			
Matrix Spike Dup (P0H1410-MSD1)		Source: 0H11002-02			Prepared: 08/14/20 Analyzed: 08/16/20					
Chloride	3030	10.2	mg/kg dry	1020	1770	123	80-120	7.75	20	QM-05

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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 P0H1012 - TX 1005**Blank (P0H1012-BLK1)**

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.2		"	100		91.2	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.1	70-130			

LCS (P0H1012-BS1)

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	921	25.0	mg/kg wet	1000		92.1	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.2	70-130			

LCS Dup (P0H1012-BS1)

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	929	25.0	mg/kg wet	1000		92.9	75-125	0.790	20	
>C12-C28	1050	25.0	"	1000		105	75-125	0.105	20	
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			

Calibration Check (P0H1012-CCV1)

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	480	25.0	mg/kg wet	500		96.1	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	49.7		"	50.0		99.4	70-130			

Calibration Check (P0H1012-CCV2)

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	451	25.0	mg/kg wet	500		90.2	85-115			
>C12-C28	452	25.0	"	500		90.4	85-115			
Surrogate: 1-Chlorooctane	94.4		"	100		94.4	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	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 Ridge Nose
Project Number: PP-2083
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 P0H1012 - TX 1005**Calibration Check (P0H1012-CCV3)**

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	466	25.0	mg/kg wet	500		93.1	85-115			
>C12-C28	464	25.0	"	500		92.8	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Matrix Spike (P0H1012-MS1)

Source: 0H10005-08

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	901	26.9	mg/kg dry	1080	ND	83.8	75-125			
>C12-C28	1030	26.9	"	1080	ND	95.7	75-125			
Surrogate: 1-Chlorooctane	118		"	108		110	70-130			
Surrogate: o-Terphenyl	61.4		"	53.8		114	70-130			

Matrix Spike Dup (P0H1012-MSD1)

Source: 0H10005-08

Prepared: 08/10/20 Analyzed: 08/11/20

C6-C12	879	26.9	mg/kg dry	1080	ND	81.8	75-125	2.48	20	
>C12-C28	990	26.9	"	1080	ND	92.1	75-125	3.91	20	
Surrogate: 1-Chlorooctane	107		"	108		99.5	70-130			
Surrogate: o-Terphenyl	53.5		"	53.8		99.5	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 Ridge Nose
Project Number: PP-2083
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
- R1 The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the higher value was reported.
- 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: 8/20/2020

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean Services

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: Dr. Rolfe

e-mail:

707 Kindy
Sylvia Reynolds
Elizaveta Stovet
Kylen Lange

Fax No:

707 Kindy

Report Format:

Standard

TRRP

NPDES

Project Name: Plains Ridge

Project #: PP-2053

Project Loc: Edley Co, NM

PO #: 2020-062

LOD CH 45

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	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 ₄ , Alkalinity)	BTEX 6021B/5030	BTEX 8260	TRA 8015 m	Chloride	
1	SW-2 @ 4'	4'	4'	08/07/20	117		1	<input checked="" type="checkbox"/>																					
2	EW-2 @ 4'	4'	4'	08/07/20	125		1	<input checked="" type="checkbox"/>																					
3	Pump truckwell @ 4'	4'	4'	08/07/20	140		1	<input checked="" type="checkbox"/>																					
4	OH-67 @ 7'	7'	7'	08/07/20	1015		1	<input checked="" type="checkbox"/>																					
5	SW-7 @ 3.5'	3.5'	3.5'	08/07/20	1025		1	<input checked="" type="checkbox"/>																					
6	NW-6 @ 3.5'	3.5'	3.5'	08/07/20	1021		1	<input checked="" type="checkbox"/>																					
7	NW-9 @ 3.5'	3.5'	3.5'	08/07/20	1031		1	<input checked="" type="checkbox"/>																					
8	EW-7 @ 3.5'	3.5'	3.5'	08/07/20	1018		1	<input checked="" type="checkbox"/>																					

Special Instructions:

Refrigerated by: [Signature] Date: 08/10/20 Time: 1108 Received by: [Signature]

Refrigerated by: [Signature] Date: 08/10/20 Time: 1108 Received by: [Signature]

Refrigerated by: [Signature] Date: 08/10/20 Time: 1108 Received by: [Signature]

Laboratory Comments:

Sample Containers Intact? VOCs Free of Headspace? Labels on containers? Clearly sealed on container? Sample Hand Delivered by Sampler/Client Rep.? Temperature Upon Receipt: 4.6 °C DHIL UPS FedEx Lone Star Adjusted: 5.6 °C Factor: 1.22

Refrigerated by: [Signature] Date: 08/10/20 Time: 1108 Received by: [Signature]

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H11007



NELAP/TCEQ # T104704516-17-8

Report Date: 08/12/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AHF @ 7'	0H11007-01	Soil	08/10/20 11:13	08-11-2020 14:25
AHF @ 9'	0H11007-02	Soil	08/10/20 11:26	08-11-2020 14:25
AHF @ 11'	0H11007-03	Soil	08/10/20 11:30	08-11-2020 14:25
AHW @ 1'	0H11007-05	Soil	08/10/20 11:47	08-11-2020 14:25
AHW @ 3'	0H11007-06	Soil	08/10/20 11:56	08-11-2020 14:25
AHW @ 5'	0H11007-07	Soil	08/10/20 12:10	08-11-2020 14:25
AHW @ 7'	0H11007-08	Soil	08/10/20 13:14	08-11-2020 14:25
AHW @ 9'	0H11007-09	Soil	08/10/20 13:21	08-11-2020 14:25

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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**AHF @ 7'
0H11007-01 (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	2.27	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Toluene	4.91	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Ethylbenzene	4.92	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (p/m)	13.7	0.0460	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (o)	5.05	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		76.7 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.7	11.5	mg/kg dry	10	POH1109	08/11/20	08/11/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	POH1201	08/12/20	08/12/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3940	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	14000	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1830	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		109 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		132 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	19800	144	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 9'
0H11007-02 (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	16.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	11500	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	24700	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	3300	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		136 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	39500	149	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 11'
0H11007-03 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	7930	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	18300	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	2540	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		129 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28700	145	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AHW @ 1'
0H11007-05 (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	0.132	0.00118	mg/kg dry	1	POH1108	08/11/20	08/12/20	EPA 8021B	
Toluene	4.69	0.0235	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Ethylbenzene	4.74	0.0235	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (p/m)	13.2	0.0471	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (o)	4.61	0.0235	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		86.2 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		68.2 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.4	11.8	mg/kg dry	10	POH1109	08/11/20	08/11/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	POH1201	08/12/20	08/12/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3990	147	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	12100	147	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1590	147	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		127 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17600	147	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 3'
0H11007-06 (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	15.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	4060	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	11200	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1710	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17000	147	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 5'
0H11007-07 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	4090	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	10400	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1650	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		118 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	16100	145	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 7'
0H11007-08 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	336	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	1390	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	207	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.3 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		104 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1940	29.1	mg/kg dry	1	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 9'
0H11007-09 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	55.8	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.2 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	55.8	29.1	mg/kg dry	1	[CALC]	08/11/20	08/11/20	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 Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)

Blank (P0H1108-BLK1)

Prepared & Analyzed: 08/11/20

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	0.106		"	0.120		88.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	75-125			

LCS (P0H1108-BS1)

Prepared & Analyzed: 08/11/20

Benzene	0.0985	0.00100	mg/kg wet	0.100		98.5	70-130			
Toluene	0.0952	0.00100	"	0.100		95.2	70-130			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	70-130			
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	70-130			
Xylene (o)	0.0976	0.00100	"	0.100		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	75-125			

LCS Dup (P0H1108-BSD1)

Prepared & Analyzed: 08/11/20

Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	70-130	6.13	20	
Toluene	0.0942	0.00100	"	0.100		94.2	70-130	1.16	20	
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	70-130	1.08	20	
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	70-130	2.58	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130	3.40	20	
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0979		"	0.120		81.6	75-125			

Calibration Check (P0H1108-CCV1)

Prepared & Analyzed: 08/11/20

Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	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 Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)

Calibration Check (P0H1108-CCV2)

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0982		"	0.120		81.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		87.1	75-125			

Calibration Check (P0H1108-CCV3)

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0994	0.00100	"	0.100		99.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			

Matrix Spike (P0H1108-MS1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0915	0.00116	mg/kg dry	0.116	0.00106	77.8	80-120			QM-05
Toluene	0.0966	0.00116	"	0.116	0.00377	79.8	80-120			QM-05
Ethylbenzene	0.113	0.00116	"	0.116	0.00306	94.9	80-120			
Xylene (p/m)	0.183	0.00233	"	0.233	0.0141	72.8	80-120			QM-05
Xylene (o)	0.0861	0.00116	"	0.116	0.00327	71.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.123		"	0.140		88.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.140		94.6	75-125			

Matrix Spike Dup (P0H1108-MSD1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0938	0.00116	mg/kg dry	0.116	0.00106	79.8	80-120	2.47	20	QM-05
Toluene	0.0899	0.00116	"	0.116	0.00377	74.1	80-120	7.48	20	QM-05
Ethylbenzene	0.106	0.00116	"	0.116	0.00306	88.3	80-120	7.21	20	
Xylene (p/m)	0.178	0.00233	"	0.233	0.0141	70.6	80-120	2.99	20	QM-05
Xylene (o)	0.0836	0.00116	"	0.116	0.00327	69.1	80-120	3.05	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.128		"	0.140		92.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.140		91.0	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 Ridge Nose
Project Number: PP-2083
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 P0H1109 - *** DEFAULT PREP ***										
LCS (P0H1109-BS1)				Prepared & Analyzed: 08/11/20						
Chloride	410	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0H1109-BSD1)				Prepared & Analyzed: 08/11/20						
Chloride	411	1.00	mg/kg wet	400		103	80-120	0.307	20	
Calibration Check (P0H1109-CCV1)				Prepared & Analyzed: 08/11/20						
Chloride	19.4		mg/kg	20.0		97.2	0-200			
Calibration Check (P0H1109-CCV2)				Prepared & Analyzed: 08/11/20						
Chloride	19.6		mg/kg	20.0		97.9	0-200			
Calibration Check (P0H1109-CCV3)				Prepared: 08/11/20 Analyzed: 08/12/20						
Chloride	19.6		mg/kg	20.0		98.1	0-200			
Matrix Spike (P0H1109-MS1)		Source: 0H11006-01		Prepared & Analyzed: 08/11/20						
Chloride	19800	54.9	mg/kg dry	5490	14300	100	80-120			
Matrix Spike (P0H1109-MS2)		Source: 0H11007-01		Prepared & Analyzed: 08/11/20						
Chloride	1160	11.5	mg/kg dry	1150	15.7	99.4	80-120			
Matrix Spike Dup (P0H1109-MSD1)		Source: 0H11006-01		Prepared & Analyzed: 08/11/20						
Chloride	20500	54.9	mg/kg dry	5490	14300	114	80-120	3.80	20	
Matrix Spike Dup (P0H1109-MSD2)		Source: 0H11007-01		Prepared & Analyzed: 08/11/20						
Chloride	1110	11.5	mg/kg dry	1150	15.7	95.5	80-120	3.95	20	
Batch P0H1201 - *** DEFAULT PREP ***										
Blank (P0H1201-BLK1)				Prepared & Analyzed: 08/12/20						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1201 - * DEFAULT PREP *****

Blank (P0H1201-BLK2)

Prepared & Analyzed: 08/12/20

% Moisture	ND	0.1	%							
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Duplicate (P0H1201-DUP1)

Source: 0H11003-02

Prepared & Analyzed: 08/12/20

% Moisture	4.0	0.1	%		4.0			0.00	20	
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Duplicate (P0H1201-DUP2)

Source: 0H11004-07

Prepared & Analyzed: 08/12/20

% Moisture	2.0	0.1	%		2.0			0.00	20	
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Duplicate (P0H1201-DUP3)

Source: 0H11007-07

Prepared & Analyzed: 08/12/20

% Moisture	14.0	0.1	%		14.0			0.00	20	
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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1106 - TX 1005										
Blank (P0H1106-BLK1)										
Prepared & Analyzed: 08/11/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.0		"	100		81.0	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.2	70-130			
LCS (P0H1106-BS1)										
Prepared & Analyzed: 08/11/20										
C6-C12	832	25.0	mg/kg wet	1000		83.2	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			
LCS Dup (P0H1106-BSD1)										
Prepared & Analyzed: 08/11/20										
C6-C12	865	25.0	mg/kg wet	1000		86.5	75-125	3.85	20	
>C12-C28	1110	25.0	"	1000		111	75-125	2.81	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.9	70-130			
Calibration Check (P0H1106-CCV1)										
Prepared & Analyzed: 08/11/20										
C6-C12	478	25.0	mg/kg wet	500		95.6	85-115			
>C12-C28	497	25.0	"	500		99.5	85-115			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			
Calibration Check (P0H1106-CCV2)										
Prepared & Analyzed: 08/11/20										
C6-C12	448	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.1	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 Ridge Nose
Project Number: PP-2083
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 P0H1106 - TX 1005**Calibration Check (P0H1106-CCV3)**

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	481	25.0	mg/kg wet	500		96.3	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Matrix Spike (P0H1106-MS1)

Source: 0H11004-08

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	906	25.3	mg/kg dry	1010	11.1	88.5	75-125			
>C12-C28	1090	25.3	"	1010	22.4	105	75-125			
Surrogate: 1-Chlorooctane	103		"	101		102	70-130			
Surrogate: o-Terphenyl	44.4		"	50.5		88.0	70-130			

Matrix Spike Dup (P0H1106-MSD1)

Source: 0H11004-08

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	870	25.3	mg/kg dry	1010	11.1	85.1	75-125	4.02	20	
>C12-C28	1060	25.3	"	1010	22.4	103	75-125	2.18	20	
Surrogate: 1-Chlorooctane	107		"	101		106	70-130			
Surrogate: o-Terphenyl	48.0		"	50.5		95.0	70-130			

Batch P0H1107 - TX 1005**Blank (P0H1107-BLK1)**

Prepared & Analyzed: 08/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	85.6		"	100		85.6	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.0	70-130			

LCS (P0H1107-BS1)

Prepared & Analyzed: 08/11/20

C6-C12	829	25.0	mg/kg wet	1000		82.9	75-125			
>C12-C28	962	25.0	"	1000		96.2	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.1	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 Ridge Nose
Project Number: PP-2083
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 P0H1107 - TX 1005										
LCS Dup (P0H1107-BSD1)										
Prepared & Analyzed: 08/11/20										
C6-C12	843	25.0	mg/kg wet	1000		84.3	75-125	1.68	20	
>C12-C28	959	25.0	"	1000		95.9	75-125	0.358	20	
Surrogate: 1-Chlorooctane	95.3		"	100		95.3	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.0	70-130			
Calibration Check (P0H1107-CCV1)										
Prepared & Analyzed: 08/11/20										
C6-C12	442	25.0	mg/kg wet	500		88.3	85-115			
>C12-C28	435	25.0	"	500		87.0	85-115			
Surrogate: 1-Chlorooctane	93.8		"	100		93.8	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			
Matrix Spike (P0H1107-MS1)										
Source: 0H11007-09 Prepared & Analyzed: 08/11/20										
C6-C12	1050	29.1	mg/kg dry	1160	14.9	88.8	75-125			
>C12-C28	1210	29.1	"	1160	55.8	99.5	75-125			
Surrogate: 1-Chlorooctane	116		"	116		99.5	70-130			
Surrogate: o-Terphenyl	59.0		"	58.1		102	70-130			
Matrix Spike Dup (P0H1107-MSD1)										
Source: 0H11007-09 Prepared & Analyzed: 08/11/20										
C6-C12	1050	29.1	mg/kg dry	1160	14.9	89.2	75-125	0.392	20	
>C12-C28	1230	29.1	"	1160	55.8	101	75-125	1.25	20	
Surrogate: 1-Chlorooctane	117		"	116		101	70-130			
Surrogate: o-Terphenyl	57.2		"	58.1		98.3	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 Ridge Nose
Project Number: PP-2083
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-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: 8/12/2020

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H11007



NELAP/TCEQ # T104704516-17-8

Report Date: 08/12/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AHF @ 7'	0H11007-01	Soil	08/10/20 11:13	08-11-2020 14:25
AHF @ 9'	0H11007-02	Soil	08/10/20 11:26	08-11-2020 14:25
AHF @ 11'	0H11007-03	Soil	08/10/20 11:30	08-11-2020 14:25
AHF @ 12'	0H11007-04	Soil	08/10/20 11:40	08-11-2020 14:25
AHW @ 1'	0H11007-05	Soil	08/10/20 11:47	08-11-2020 14:25
AHW @ 3'	0H11007-06	Soil	08/10/20 11:56	08-11-2020 14:25
AHW @ 5'	0H11007-07	Soil	08/10/20 12:10	08-11-2020 14:25
AHW @ 7'	0H11007-08	Soil	08/10/20 13:14	08-11-2020 14:25
AHW @ 9'	0H11007-09	Soil	08/10/20 13:21	08-11-2020 14:25

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AHF @ 7'
0H11007-01 (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	2.27	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Toluene	4.91	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Ethylbenzene	4.92	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (p/m)	13.7	0.0460	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
Xylene (o)	5.05	0.0230	mg/kg dry	20	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		76.7 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %		75-125	POH1108	08/11/20	08/12/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.7	11.5	mg/kg dry	10	POH1109	08/11/20	08/11/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	POH1201	08/12/20	08/12/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3940	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	14000	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1830	144	mg/kg dry	5	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		109 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		132 %		70-130	POH1106	08/11/20	08/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	19800	144	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 9'
0H11007-02 (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	16.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	11500	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	24700	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	3300	149	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		136 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	39500	149	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 11'
0H11007-03 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	7930	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	18300	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	2540	145	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		129 %	70-130		P0H1106	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28700	145	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 12'
0H11007-04 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	48.3	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	1130	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	201	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		100 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1380	29.1	mg/kg dry	1	[CALC]	08/11/20	08/11/20	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

AHW @ 1'
0H11007-05 (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	0.132	0.00118	mg/kg dry	1	P0H1108	08/11/20	08/12/20	EPA 8021B	
Toluene	4.69	0.0235	mg/kg dry	20	P0H1108	08/11/20	08/12/20	EPA 8021B	
Ethylbenzene	4.74	0.0235	mg/kg dry	20	P0H1108	08/11/20	08/12/20	EPA 8021B	
Xylene (p/m)	13.2	0.0471	mg/kg dry	20	P0H1108	08/11/20	08/12/20	EPA 8021B	
Xylene (o)	4.61	0.0235	mg/kg dry	20	P0H1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		86.2 %		75-125	P0H1108	08/11/20	08/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		68.2 %		75-125	P0H1108	08/11/20	08/12/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.4	11.8	mg/kg dry	10	P0H1109	08/11/20	08/11/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3990	147	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C12-C28	12100	147	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1590	147	mg/kg dry	5	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %		70-130	P0H1106	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		127 %		70-130	P0H1106	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17600	147	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 3'
0H11007-06 (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	15.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	4060	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	11200	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1710	147	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17000	147	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 5'
0H11007-07 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	4090	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	10400	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	1650	145	mg/kg dry	5	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		118 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	16100	145	mg/kg dry	5	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 7'
0H11007-08 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	336	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	1390	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	207	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.3 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		104 %	70-130		P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1940	29.1	mg/kg dry	1	[CALC]	08/11/20	08/11/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHW @ 9'
0H11007-09 (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	14.0	0.1	%	1	P0H1201	08/12/20	08/12/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C12-C28	55.8	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0H1107	08/11/20	08/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.2 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %		70-130	P0H1107	08/11/20	08/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	55.8	29.1	mg/kg dry	1	[CALC]	08/11/20	08/11/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)

Blank (P0H1108-BLK1)										
										Prepared & Analyzed: 08/11/20
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	0.106		"	0.120		88.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	75-125			

LCS (P0H1108-BS1)										
										Prepared & Analyzed: 08/11/20
Benzene	0.0985	0.00100	mg/kg wet	0.100		98.5	70-130			
Toluene	0.0952	0.00100	"	0.100		95.2	70-130			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	70-130			
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	70-130			
Xylene (o)	0.0976	0.00100	"	0.100		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0977		"	0.120		81.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	75-125			

LCS Dup (P0H1108-BSD1)										
										Prepared & Analyzed: 08/11/20
Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	70-130	6.13	20	
Toluene	0.0942	0.00100	"	0.100		94.2	70-130	1.16	20	
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	70-130	1.08	20	
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	70-130	2.58	20	
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130	3.40	20	
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0979		"	0.120		81.6	75-125			

Calibration Check (P0H1108-CCV1)										
										Prepared & Analyzed: 08/11/20
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	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 Ridge Nose
Project Number: PP-2083
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 P0H1108 - General Preparation (GC)**Calibration Check (P0H1108-CCV2)**

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0982		"	0.120		81.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		87.1	75-125			

Calibration Check (P0H1108-CCV3)

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0994	0.00100	"	0.100		99.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		95.8	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			

Matrix Spike (P0H1108-MS1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0915	0.00116	mg/kg dry	0.116	0.00106	77.8	80-120			QM-05
Toluene	0.0966	0.00116	"	0.116	0.00377	79.8	80-120			QM-05
Ethylbenzene	0.113	0.00116	"	0.116	0.00306	94.9	80-120			
Xylene (p/m)	0.183	0.00233	"	0.233	0.0141	72.8	80-120			QM-05
Xylene (o)	0.0861	0.00116	"	0.116	0.00327	71.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.123		"	0.140		88.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.140		94.6	75-125			

Matrix Spike Dup (P0H1108-MSD1)

Source: 0H11007-10

Prepared: 08/11/20 Analyzed: 08/12/20

Benzene	0.0938	0.00116	mg/kg dry	0.116	0.00106	79.8	80-120	2.47	20	QM-05
Toluene	0.0899	0.00116	"	0.116	0.00377	74.1	80-120	7.48	20	QM-05
Ethylbenzene	0.106	0.00116	"	0.116	0.00306	88.3	80-120	7.21	20	
Xylene (p/m)	0.178	0.00233	"	0.233	0.0141	70.6	80-120	2.99	20	QM-05
Xylene (o)	0.0836	0.00116	"	0.116	0.00327	69.1	80-120	3.05	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.128		"	0.140		92.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.140		91.0	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 Ridge Nose
Project Number: PP-2083
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 P0H1109 - *** DEFAULT PREP ***										
LCS (P0H1109-BS1)				Prepared & Analyzed: 08/11/20						
Chloride	410	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0H1109-BSD1)				Prepared & Analyzed: 08/11/20						
Chloride	411	1.00	mg/kg wet	400		103	80-120	0.307	20	
Calibration Check (P0H1109-CCV1)				Prepared & Analyzed: 08/11/20						
Chloride	19.4		mg/kg	20.0		97.2	0-200			
Calibration Check (P0H1109-CCV2)				Prepared & Analyzed: 08/11/20						
Chloride	19.6		mg/kg	20.0		97.9	0-200			
Calibration Check (P0H1109-CCV3)				Prepared: 08/11/20 Analyzed: 08/12/20						
Chloride	19.6		mg/kg	20.0		98.1	0-200			
Matrix Spike (P0H1109-MS1)		Source: 0H11006-01			Prepared & Analyzed: 08/11/20					
Chloride	19800	54.9	mg/kg dry	5490	14300	100	80-120			
Matrix Spike (P0H1109-MS2)		Source: 0H11007-01			Prepared & Analyzed: 08/11/20					
Chloride	1160	11.5	mg/kg dry	1150	15.7	99.4	80-120			
Matrix Spike Dup (P0H1109-MSD1)		Source: 0H11006-01			Prepared & Analyzed: 08/11/20					
Chloride	20500	54.9	mg/kg dry	5490	14300	114	80-120	3.80	20	
Matrix Spike Dup (P0H1109-MSD2)		Source: 0H11007-01			Prepared & Analyzed: 08/11/20					
Chloride	1110	11.5	mg/kg dry	1150	15.7	95.5	80-120	3.95	20	
Batch P0H1201 - *** DEFAULT PREP ***										
Blank (P0H1201-BLK1)				Prepared & Analyzed: 08/12/20						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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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 P0H1201 - * DEFAULT PREP *****

Blank (P0H1201-BLK2)										Prepared & Analyzed: 08/12/20
% Moisture	ND	0.1	%							
Duplicate (P0H1201-DUP1)		Source: 0H11003-02								Prepared & Analyzed: 08/12/20
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0H1201-DUP2)		Source: 0H11004-07								Prepared & Analyzed: 08/12/20
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0H1201-DUP3)		Source: 0H11007-07								Prepared & Analyzed: 08/12/20
% Moisture	14.0	0.1	%		14.0			0.00	20	

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1106 - TX 1005

Blank (P0H1106-BLK1)

Prepared & Analyzed: 08/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.0		"	100		81.0	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.2	70-130			

LCS (P0H1106-BS1)

Prepared & Analyzed: 08/11/20

C6-C12	832	25.0	mg/kg wet	1000		83.2	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			

LCS Dup (P0H1106-BSD1)

Prepared & Analyzed: 08/11/20

C6-C12	865	25.0	mg/kg wet	1000		86.5	75-125	3.85	20	
>C12-C28	1110	25.0	"	1000		111	75-125	2.81	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.9	70-130			

Calibration Check (P0H1106-CCV1)

Prepared & Analyzed: 08/11/20

C6-C12	478	25.0	mg/kg wet	500		95.6	85-115			
>C12-C28	497	25.0	"	500		99.5	85-115			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			

Calibration Check (P0H1106-CCV2)

Prepared & Analyzed: 08/11/20

C6-C12	448	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.1	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1106 - TX 1005**Calibration Check (P0H1106-CCV3)**

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	481	25.0	mg/kg wet	500		96.3	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Matrix Spike (P0H1106-MS1)

Source: 0H11004-08

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	906	25.3	mg/kg dry	1010	11.1	88.5	75-125			
>C12-C28	1090	25.3	"	1010	22.4	105	75-125			
Surrogate: 1-Chlorooctane	103		"	101		102	70-130			
Surrogate: o-Terphenyl	44.4		"	50.5		88.0	70-130			

Matrix Spike Dup (P0H1106-MSD1)

Source: 0H11004-08

Prepared: 08/11/20 Analyzed: 08/12/20

C6-C12	870	25.3	mg/kg dry	1010	11.1	85.1	75-125	4.02	20	
>C12-C28	1060	25.3	"	1010	22.4	103	75-125	2.18	20	
Surrogate: 1-Chlorooctane	107		"	101		106	70-130			
Surrogate: o-Terphenyl	48.0		"	50.5		95.0	70-130			

Batch P0H1107 - TX 1005**Blank (P0H1107-BLK1)**

Prepared & Analyzed: 08/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	85.6		"	100		85.6	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.0	70-130			

LCS (P0H1107-BS1)

Prepared & Analyzed: 08/11/20

C6-C12	829	25.0	mg/kg wet	1000		82.9	75-125			
>C12-C28	962	25.0	"	1000		96.2	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.1	70-130			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P0H1107 - TX 1005										
LCS Dup (P0H1107-BSD1)										
Prepared & Analyzed: 08/11/20										
C6-C12	843	25.0	mg/kg wet	1000		84.3	75-125	1.68	20	
>C12-C28	959	25.0	"	1000		95.9	75-125	0.358	20	
Surrogate: 1-Chlorooctane	95.3		"	100		95.3	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.0	70-130			
Calibration Check (P0H1107-CCV1)										
Prepared & Analyzed: 08/11/20										
C6-C12	442	25.0	mg/kg wet	500		88.3	85-115			
>C12-C28	435	25.0	"	500		87.0	85-115			
Surrogate: 1-Chlorooctane	93.8		"	100		93.8	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			
Matrix Spike (P0H1107-MS1)										
Source: 0H11007-09 Prepared & Analyzed: 08/11/20										
C6-C12	1050	29.1	mg/kg dry	1160	14.9	88.8	75-125			
>C12-C28	1210	29.1	"	1160	55.8	99.5	75-125			
Surrogate: 1-Chlorooctane	116		"	116		99.5	70-130			
Surrogate: o-Terphenyl	59.0		"	58.1		102	70-130			
Matrix Spike Dup (P0H1107-MSD1)										
Source: 0H11007-09 Prepared & Analyzed: 08/11/20										
C6-C12	1050	29.1	mg/kg dry	1160	14.9	89.2	75-125	0.392	20	
>C12-C28	1230	29.1	"	1160	55.8	101	75-125	1.25	20	
Surrogate: 1-Chlorooctane	117		"	116		101	70-130			
Surrogate: o-Terphenyl	57.2		"	58.1		98.3	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 Ridge Nose
Project Number: PP-2083
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-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: 8/12/2020

Brent Barron, Laboratory Director/Technical Director

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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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

Permian Basin Environmental Lab, L.P.

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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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0H19006



NELAP/TCEQ # T104704516-17-8

Report Date: 08/20/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AHF @ 14'	0H19006-01	Soil	08/18/20 09:39	08-19-2020 11:07
AHF @ 16'	0H19006-02	Soil	08/18/20 09:51	08-19-2020 11:07
AHF @ 18'	0H19006-03	Soil	08/18/20 10:10	08-19-2020 11:07
AHF @ 20'	0H19006-04	Soil	08/18/20 10:23	08-19-2020 11:07
AHF @ 22'	0H19006-05	Soil	08/18/20 11:20	08-19-2020 11:07
AHF @ 24'	0H19006-06	Soil	08/18/20 12:15	08-19-2020 11:07

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 14'
0H19006-01 (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	16.0	0.1	%	1	P0H2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C12-C28	132	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>117 %</i>	<i>70-130</i>		<i>P0H1904</i>	<i>08/19/20</i>	<i>08/19/20</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>127 %</i>	<i>70-130</i>		<i>P0H1904</i>	<i>08/19/20</i>	<i>08/19/20</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	132	29.8	mg/kg dry	1	[CALC]	08/19/20	08/19/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 16'
0H19006-02 (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	7.0	0.1	%	1	P0H2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2840	134	mg/kg dry	5	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C12-C28	22300	134	mg/kg dry	5	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C28-C35	2830	134	mg/kg dry	5	P0H1904	08/19/20	08/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %		70-130	P0H1904	08/19/20	08/19/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		142 %		70-130	P0H1904	08/19/20	08/19/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	28000	134	mg/kg dry	5	[CALC]	08/19/20	08/19/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 18'
0H19006-03 (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	16.0	0.1	%	1	P0H2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C12-C28	181	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
>C28-C35	56.3	29.8	mg/kg dry	1	P0H1904	08/19/20	08/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P0H1904	08/19/20	08/19/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0H1904	08/19/20	08/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	237	29.8	mg/kg dry	1	[CALC]	08/19/20	08/19/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 20'
0H19006-04 (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	13.0	0.1	%	1	POH2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	POH1906	08/19/20	08/20/20	TPH 8015M	
>C12-C28	113	28.7	mg/kg dry	1	POH1906	08/19/20	08/20/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	POH1906	08/19/20	08/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		POH1906	08/19/20	08/20/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		POH1906	08/19/20	08/20/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	113	28.7	mg/kg dry	1	[CALC]	08/19/20	08/20/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
---	---	------

AHF @ 22'
0H19006-05 (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	13.0	0.1	%	1	P0H2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
>C12-C28	143	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		123 %	70-130		P0H1906	08/19/20	08/20/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		131 %	70-130		P0H1906	08/19/20	08/20/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	143	28.7	mg/kg dry	1	[CALC]	08/19/20	08/20/20	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 Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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AHF @ 24'
0H19006-06 (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	13.0	0.1	%	1	P0H2002	08/20/20	08/20/20	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0H1906	08/19/20	08/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		P0H1906	08/19/20	08/20/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0H1906	08/19/20	08/20/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	08/19/20	08/20/20	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 Ridge Nose
Project Number: PP-2083
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 P0H2002 - *** DEFAULT PREP ***										
Blank (P0H2002-BLK1) Prepared & Analyzed: 08/20/20										
% Moisture	ND	0.1	%							
Blank (P0H2002-BLK2) Prepared & Analyzed: 08/20/20										
% Moisture	ND	0.1	%							
Duplicate (P0H2002-DUP1) Source: 0H18011-07 Prepared & Analyzed: 08/20/20										
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0H2002-DUP2) Source: 0H19002-01 Prepared & Analyzed: 08/20/20										
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0H2002-DUP3) Source: 0H19007-02 Prepared & Analyzed: 08/20/20										
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0H2002-DUP4) Source: 0H19008-09 Prepared & Analyzed: 08/20/20										
% Moisture	6.0	0.1	%		7.0			15.4	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 Ridge Nose
Project Number: PP-2083
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 P0H1904 - TX 1005**Blank (P0H1904-BLK1)**

Prepared & Analyzed: 08/19/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.1		"	100		96.1	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.3	70-130			

LCS (P0H1904-BS1)

Prepared & Analyzed: 08/19/20

C6-C12	890	25.0	mg/kg wet	1000		89.0	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

LCS Dup (P0H1904-BSD1)

Prepared & Analyzed: 08/19/20

C6-C12	847	25.0	mg/kg wet	1000		84.7	75-125	4.92	20	
>C12-C28	935	25.0	"	1000		93.5	75-125	7.70	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.1	70-130			

Calibration Check (P0H1904-CCV1)

Prepared & Analyzed: 08/19/20

C6-C12	477	25.0	mg/kg wet	500		95.3	85-115			
>C12-C28	437	25.0	"	500		87.3	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Calibration Check (P0H1904-CCV2)

Prepared & Analyzed: 08/19/20

C6-C12	431	25.0	mg/kg wet	500		86.3	85-115			
>C12-C28	434	25.0	"	500		86.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	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 Ridge Nose
Project Number: PP-2083
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 P0H1904 - TX 1005**Matrix Spike (P0H1904-MS1)**

Source: 0H19005-05

Prepared & Analyzed: 08/19/20

C6-C12	930	26.0	mg/kg dry	1040	ND	89.3	75-125			
>C12-C28	908	26.0	"	1040	14.6	85.7	75-125			
Surrogate: 1-Chlorooctane	108		"	104		103	70-130			
Surrogate: o-Terphenyl	51.0		"	52.1		97.9	70-130			

Matrix Spike Dup (P0H1904-MSD1)

Source: 0H19005-05

Prepared & Analyzed: 08/19/20

C6-C12	906	26.0	mg/kg dry	1040	ND	87.0	75-125	2.68	20	
>C12-C28	886	26.0	"	1040	14.6	83.6	75-125	2.46	20	
Surrogate: 1-Chlorooctane	113		"	104		108	70-130			
Surrogate: o-Terphenyl	53.2		"	52.1		102	70-130			

Batch P0H1906 - TX 1005**Blank (P0H1906-BLK1)**

Prepared: 08/19/20 Analyzed: 08/20/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			

LCS (P0H1906-BS1)

Prepared & Analyzed: 08/19/20

C6-C12	944	25.0	mg/kg wet	1000		94.4	75-125			
>C12-C28	941	25.0	"	1000		94.1	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			

LCS Dup (P0H1906-BSD1)

Prepared: 08/19/20 Analyzed: 08/20/20

C6-C12	957	25.0	mg/kg wet	1000		95.7	75-125	1.44	20	
>C12-C28	961	25.0	"	1000		96.1	75-125	2.07	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	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 Ridge Nose
Project Number: PP-2083
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 P0H1906 - TX 1005										
Calibration Check (P0H1906-CCV1)				Prepared & Analyzed: 08/19/20						
C6-C12	475	25.0	mg/kg wet	500		95.1	85-115			
>C12-C28	452	25.0	"	500		90.4	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			
Calibration Check (P0H1906-CCV2)				Prepared: 08/19/20 Analyzed: 08/20/20						
C6-C12	470	25.0	mg/kg wet	500		94.0	85-115			
>C12-C28	437	25.0	"	500		87.3	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			
Calibration Check (P0H1906-CCV3)				Prepared: 08/19/20 Analyzed: 08/20/20						
C6-C12	463	25.0	mg/kg wet	500		92.7	85-115			
>C12-C28	435	25.0	"	500		87.0	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			
Matrix Spike (P0H1906-MS1)				Source: 0H19006-04		Prepared: 08/19/20 Analyzed: 08/20/20				
C6-C12	1100	28.7	mg/kg dry	1150	16.8	94.1	75-125			
>C12-C28	1090	28.7	"	1150	113	85.1	75-125			
Surrogate: 1-Chlorooctane	133		"	115		115	70-130			
Surrogate: o-Terphenyl	66.1		"	57.5		115	70-130			
Matrix Spike Dup (P0H1906-MSD1)				Source: 0H19006-04		Prepared: 08/19/20 Analyzed: 08/20/20				
C6-C12	1080	28.7	mg/kg dry	1150	16.8	92.1	75-125	2.15	20	
>C12-C28	1070	28.7	"	1150	113	83.5	75-125	1.85	20	
Surrogate: 1-Chlorooctane	130		"	115		113	70-130			
Surrogate: o-Terphenyl	63.5		"	57.5		110	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 Ridge Nose
Project Number: PP-2083
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: 8/20/2020

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

**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 Ridge Nose
Project Number: PP-2083
Location: Eddy County, NM
Lab Order Number: 0I03005



Current Certification

Report Date: 09/04/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-4 @ 5'	0I03005-01	Soil	09/02/20 09:54	09-03-2020 15:03
NW-7 @ 2'	0I03005-02	Soil	09/02/20 11:11	09-03-2020 15:03
NW-8 @ 12'	0I03005-03	Soil	09/02/20 13:14	09-03-2020 15:03
SW-8 @ 2'	0I03005-04	Soil	09/02/20 09:45	09-03-2020 15:03
SW-9 @ 5'	0I03005-05	Soil	09/02/20 09:48	09-03-2020 15:03
SW-10 @ 12'	0I03005-06	Soil	09/02/20 13:07	09-03-2020 15:03
WW-10 @ 12'	0I03005-07	Soil	09/02/20 13:07	09-03-2020 15:03
EW-8 @ 2'	0I03005-08	Soil	09/02/20 09:42	09-03-2020 15:03
EW-9 @ 6'	0I03005-09	Soil	09/02/20 09:48	09-03-2020 15:03
EW-10 @ 12'	0I03005-10	Soil	09/02/20 13:13	09-03-2020 15:03
BH-68 @ 1'	0I03005-11	Soil	09/02/20 08:23	09-03-2020 15:03
BH-69 @ 1'	0I03005-12	Soil	09/02/20 08:20	09-03-2020 15:03
BH-70 @ 1'	0I03005-13	Soil	09/02/20 08:18	09-03-2020 15:03
BH-71 @ 4'	0I03005-14	Soil	09/02/20 11:01	09-03-2020 15:03
BH-72 @ 4'	0I03005-15	Soil	09/02/20 11:04	09-03-2020 15:03
BH-73 @ 4'	0I03005-16	Soil	09/02/20 11:07	09-03-2020 15:03
BH-74 @ 9'	0I03005-17	Soil	09/02/20 09:55	09-03-2020 15:03
BH-75 @ 9'	0I03005-18	Soil	09/02/20 09:58	09-03-2020 15:03
BH-76 @ 15'	0I03005-19	Soil	09/02/20 13:02	09-03-2020 15:03

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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NW-4 @ 5'
0103005-01 (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	11.0	0.1	%	1	P010405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P010309	09/03/20 13:50	09/03/20 23:44	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P010309	09/03/20 13:50	09/03/20 23:44	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P010309	09/03/20 13:50	09/03/20 23:44	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %		70-130	P010309	09/03/20 13:50	09/03/20 23:44	TPH 8015M	
Surrogate: o-Terphenyl		126 %		70-130	P010309	09/03/20 13:50	09/03/20 23:44	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	09/03/20 13:50	09/03/20 23:44	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NW-7 @ 2'
0103005-02 (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	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.2 %	75-125		P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.4 %	75-125		P0I0310	09/03/20 15:24	09/03/20 23:58	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.5	1.10	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 19:26	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:07	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:07	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:07	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:07	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:07	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 00:07	calc	

Permian Basin Environmental Lab, L.P.

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

Page 4 of 32

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

NW-8 @ 12'
0103005-03 (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	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.6 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	50.6	1.09	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 20:07	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:29	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:29	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:29	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:29	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 00:29	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-8 @ 2'
0103005-04 (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	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.8 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.1 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:39	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	53.2	1.10	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 20:21	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:52	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:52	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 00:52	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:52	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0I0309	09/03/20 13:50	09/04/20 00:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 00:52	calc	

Permian Basin Environmental Lab, L.P.

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

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-9 @ 5'
0103005-05 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.9 %	75-125		P0I0310	09/03/20 15:24	09/04/20 00:59	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.0	1.11	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 20:35	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:14	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:14	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:14	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:14	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 01:14	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

SW-10 @ 12'
0103005-06 (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	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.4 %	75-125		P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.5 %	75-125		P0I0310	09/03/20 15:24	09/04/20 01:20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.3	1.06	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 20:48	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:37	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:37	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:37	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:37	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 01:37	calc	

Permian Basin Environmental Lab, L.P.

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

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

WW-10 @ 12'
0103005-07 (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	0.00105	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.2 %	75-125		P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.3 %	75-125		P0I0310	09/03/20 15:24	09/04/20 01:40	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.5	1.05	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 21:02	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:59	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:59	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 01:59	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:59	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0I0309	09/03/20 13:50	09/04/20 01:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 01:59	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-8 @ 2'
0103005-08 (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	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.4 %	75-125		P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.2 %	75-125		P0I0310	09/03/20 15:24	09/04/20 02:00	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	211	1.09	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 21:16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:07	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:07	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:07	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-130		P0I0309	09/03/20 13:50	09/04/20 03:07	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0I0309	09/03/20 13:50	09/04/20 03:07	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 03:07	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

EW-9 @ 6'
0103005-09 (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	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.1 %		75-125	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.1 %		75-125	P0I0310	09/03/20 15:24	09/04/20 02:21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	70.9	1.06	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 21:30	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:30	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:30	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:30	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %		70-130	P0I0309	09/03/20 13:50	09/04/20 03:30	TPH 8015M	
Surrogate: o-Terphenyl		119 %		70-130	P0I0309	09/03/20 13:50	09/04/20 03:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 03:30	calc	

Permian Basin Environmental Lab, L.P.

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

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Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Ridge Nose Project Number: PP-2083 Project Manager: Sylwia Reynolds	Fax:
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EW-10 @ 12'
0103005-10 (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	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.5 %	75-125		P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.6 %	75-125		P0I0310	09/03/20 15:24	09/04/20 02:41	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.7	1.09	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 21:44	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:53	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:53	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 03:53	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0I0309	09/03/20 13:50	09/04/20 03:53	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0I0309	09/03/20 13:50	09/04/20 03:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 03:53	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-68 @ 1'
0103005-11 (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	0.00108	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.9 %	75-125		P0I0310	09/03/20 15:24	09/04/20 03:01	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	796	1.08	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 21:57	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:16	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:16	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:16	TPH 8015M	
Surrogate: 1-Chlorooctane		94.9 %	70-130		P0I0309	09/03/20 13:50	09/04/20 04:16	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0I0309	09/03/20 13:50	09/04/20 04:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 04:16	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-69 @ 1'
0103005-12 (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	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.1 %		75-125	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.3 %		75-125	P0I0310	09/03/20 15:24	09/04/20 04:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	695	1.06	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 22:39	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:40	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:40	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 04:40	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %		70-130	P0I0309	09/03/20 13:50	09/04/20 04:40	TPH 8015M	
Surrogate: o-Terphenyl		113 %		70-130	P0I0309	09/03/20 13:50	09/04/20 04:40	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 04:40	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-70 @ 1'
0103005-13 (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	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.8 %		75-125	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.2 %		75-125	P0I0310	09/03/20 15:24	09/04/20 04:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	651	1.06	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 23:20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:03	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:03	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:03	TPH 8015M	
Surrogate: 1-Chlorooctane		91.7 %		70-130	P0I0309	09/03/20 13:50	09/04/20 05:03	TPH 8015M	
Surrogate: o-Terphenyl		110 %		70-130	P0I0309	09/03/20 13:50	09/04/20 05:03	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 05:03	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-71 @ 4'
0103005-14 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.9 %	75-125		P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.5 %	75-125		P0I0310	09/03/20 15:24	09/04/20 04:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.7	1.11	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 23:34	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:26	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:26	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:26	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-130		P0I0309	09/03/20 13:50	09/04/20 05:26	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0I0309	09/03/20 13:50	09/04/20 05:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 05:26	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-72 @ 4'
0103005-15 (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	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.3 %		75-125	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.1 %		75-125	P0I0310	09/03/20 15:24	09/04/20 05:03	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	124	1.10	mg/kg dry	1	P0I0314	09/03/20 16:11	09/03/20 23:47	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:50	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:50	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 05:50	TPH 8015M	
Surrogate: 1-Chlorooctane		93.3 %		70-130	P0I0309	09/03/20 13:50	09/04/20 05:50	TPH 8015M	
Surrogate: o-Terphenyl		111 %		70-130	P0I0309	09/03/20 13:50	09/04/20 05:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 05:50	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-73 @ 4'
0103005-16 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.5 %	75-125		P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.6 %	75-125		P0I0310	09/03/20 15:24	09/04/20 05:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	84.0	1.14	mg/kg dry	1	P0I0314	09/03/20 16:11	09/04/20 00:01	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:13	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:13	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:13	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %	70-130		P0I0309	09/03/20 13:50	09/04/20 06:13	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0I0309	09/03/20 13:50	09/04/20 06:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 06:13	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-74 @ 9'
0103005-17 (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

Benzene	ND	0.00116	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.0 %	75-125		P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.2 %	75-125		P0I0310	09/03/20 15:24	09/04/20 05:44	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	140	5.81	mg/kg dry	5	P0I0314	09/03/20 16:11	09/04/20 00:15	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:36	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:36	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0I0309	09/03/20 13:50	09/04/20 06:36	TPH 8015M	
Surrogate: 1-Chlorooctane		98.9 %	70-130		P0I0309	09/03/20 13:50	09/04/20 06:36	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0I0309	09/03/20 13:50	09/04/20 06:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	09/03/20 13:50	09/04/20 06:36	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-75 @ 9'
0103005-18 (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

Benzene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.2 %		75-125	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %		75-125	P0I0310	09/03/20 15:24	09/04/20 06:04	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.6	1.14	mg/kg dry	1	P0I0314	09/03/20 16:11	09/04/20 10:33	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 03:40	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 03:40	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 03:40	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %		70-130	P0I0312	09/03/20 15:47	09/04/20 03:40	TPH 8015M	
Surrogate: o-Terphenyl		123 %		70-130	P0I0312	09/03/20 15:47	09/04/20 03:40	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	09/03/20 15:47	09/04/20 03:40	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 Ridge Nose
Project Number: PP-2083
Project Manager: Sylwia Reynolds

Fax:

BH-76 @ 15'
0103005-19 (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	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.3 %	75-125		P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.2 %	75-125		P0I0310	09/03/20 15:24	09/04/20 06:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.7	1.06	mg/kg dry	1	P0I0314	09/03/20 16:11	09/04/20 00:43	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0I0405	09/04/20 09:34	09/04/20 09:38	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 04:04	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 04:04	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I0312	09/03/20 15:47	09/04/20 04:04	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0I0312	09/03/20 15:47	09/04/20 04:04	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0I0312	09/03/20 15:47	09/04/20 04:04	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/03/20 15:47	09/04/20 04:04	calc	

Permian Basin Environmental Lab, L.P.

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

Page 21 of 32

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains Ridge Nose
Project Number: PP-2083
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 P010310 - General Preparation (GC)**Blank (P010310-BLK1)**

Prepared & Analyzed: 09/03/20

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	0.107		"	0.120		89.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0980		"	0.120		81.7	75-125			

LCS (P010310-BS1)

Prepared & Analyzed: 09/03/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0995	0.00100	"	0.100		99.5	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.199	0.00200	"	0.200		99.6	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0969		"	0.120		80.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	75-125			

LCS Dup (P010310-BSD1)

Prepared & Analyzed: 09/03/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	0.529	20	
Toluene	0.0948	0.00100	"	0.100		94.8	70-130	4.87	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	0.165	20	
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130	1.71	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	1.89	20	
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.8	75-125			

Calibration Check (P010310-CCV1)

Prepared & Analyzed: 09/03/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0969	0.00100	"	0.100		96.9	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0998		"	0.120		83.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	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 Ridge Nose
Project Number: PP-2083
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 P010310 - General Preparation (GC)**Calibration Check (P010310-CCV2)**

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0946	0.00100	mg/kg wet	0.100		94.6	80-120			
Toluene	0.0853	0.00100	"	0.100		85.3	80-120			
Ethylbenzene	0.0872	0.00100	"	0.100		87.2	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.5	80-120			
Xylene (o)	0.0892	0.00100	"	0.100		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			

Calibration Check (P010310-CCV3)

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0923	0.00100	"	0.100		92.3	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	75-125			

Matrix Spike (P010310-MS1)

Source: 0102005-02

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0987	0.00112	mg/kg dry	0.112	ND	87.8	80-120			
Toluene	0.0876	0.00112	"	0.112	ND	78.0	80-120			QM-05
Ethylbenzene	0.103	0.00112	"	0.112	ND	91.8	80-120			
Xylene (p/m)	0.171	0.00225	"	0.225	ND	76.2	80-120			QM-05
Xylene (o)	0.0831	0.00112	"	0.112	ND	74.0	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.117		"	0.135		86.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.135		93.5	75-125			

Matrix Spike Dup (P010310-MSD1)

Source: 0102005-02

Prepared: 09/03/20 Analyzed: 09/04/20

Benzene	0.0987	0.00112	mg/kg dry	0.112	ND	87.8	80-120	0.0342	20	
Toluene	0.0882	0.00112	"	0.112	ND	78.5	80-120	0.728	20	QM-05
Ethylbenzene	0.104	0.00112	"	0.112	ND	92.8	80-120	1.07	20	
Xylene (p/m)	0.171	0.00225	"	0.225	ND	76.2	80-120	0.0591	20	QM-05
Xylene (o)	0.0839	0.00112	"	0.112	ND	74.7	80-120	0.955	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.125		"	0.135		92.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.135		85.1	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 Ridge Nose
Project Number: PP-2083
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 P0I0314 - * DEFAULT PREP *****

Blank (P0I0314-BLK1) Prepared & Analyzed: 09/03/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0I0314-BS1) Prepared & Analyzed: 09/03/20

Chloride	410	1.00	mg/kg wet	400		103	80-120			
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LCS Dup (P0I0314-BSD1) Prepared & Analyzed: 09/03/20

Chloride	438	1.00	mg/kg wet	400		109	80-120	6.60	20	
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Calibration Blank (P0I0314-CCB1) Prepared & Analyzed: 09/03/20

Chloride	0.00		mg/kg wet							
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Calibration Blank (P0I0314-CCB2) Prepared & Analyzed: 09/03/20

Chloride	0.00		mg/kg wet							
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Calibration Check (P0I0314-CCV1) Prepared & Analyzed: 09/03/20

Chloride	19.7		mg/kg	20.0		98.6	0-200			
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Calibration Check (P0I0314-CCV2) Prepared & Analyzed: 09/03/20

Chloride	19.7		mg/kg	20.0		98.4	0-200			
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Calibration Check (P0I0314-CCV3) Prepared: 09/03/20 Analyzed: 09/04/20

Chloride	19.9		mg/kg	20.0		99.3	0-200			
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Matrix Spike (P0I0314-MS1) Source: 0103005-02 Prepared & Analyzed: 09/03/20

Chloride	561	1.10	mg/kg dry	549	40.5	94.8	80-120			
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Matrix Spike (P0I0314-MS2) Source: 0103005-12 Prepared & Analyzed: 09/03/20

Chloride	1120	1.06	mg/kg dry	532	695	79.8	80-120			QM-05
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Dean
12600 W County Rd 91
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Project: Plains Ridge Nose
Project Number: PP-2083
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 P010314 - * DEFAULT PREP *****

Matrix Spike Dup (P010314-MSD1)		Source: 0103005-02			Prepared & Analyzed: 09/03/20					
Chloride	588	1.10	mg/kg dry	549	40.5	99.7	80-120	4.73	20	
Matrix Spike Dup (P010314-MSD2)		Source: 0103005-12			Prepared & Analyzed: 09/03/20					
Chloride	1150	1.06	mg/kg dry	532	695	86.1	80-120	2.97	20	

Batch P010405 - * DEFAULT PREP *****

Blank (P010405-BLK1)					Prepared & Analyzed: 09/04/20					
% Moisture	ND	0.1	%							
Blank (P010405-BLK2)					Prepared & Analyzed: 09/04/20					
% Moisture	ND	0.1	%							
Blank (P010405-BLK3)					Prepared & Analyzed: 09/04/20					
% Moisture	ND	0.1	%							
Blank (P010405-BLK4)					Prepared & Analyzed: 09/04/20					
% Moisture	ND	0.1	%							
Duplicate (P010405-DUP1)		Source: 0103002-06			Prepared & Analyzed: 09/04/20					
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P010405-DUP2)		Source: 0103002-16			Prepared & Analyzed: 09/04/20					
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P010405-DUP3)		Source: 0103004-07			Prepared & Analyzed: 09/04/20					
% Moisture	5.0	0.1	%		4.0			22.2	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 Ridge Nose
Project Number: PP-2083
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 P010405 - *** DEFAULT PREP ***										
Duplicate (P010405-DUP4)		Source: 0103005-03			Prepared & Analyzed: 09/04/20					
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P010405-DUP5)		Source: 0103005-18			Prepared & Analyzed: 09/04/20					
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P010405-DUP6)		Source: 0103009-01			Prepared & Analyzed: 09/04/20					
% Moisture	ND	0.1	%		ND				20	
Duplicate (P010405-DUP7)		Source: 0103012-02			Prepared & Analyzed: 09/04/20					
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P010405-DUP8)		Source: 0103014-04			Prepared & Analyzed: 09/04/20					
% Moisture	6.0	0.1	%		6.0			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 Ridge Nose
Project Number: PP-2083
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 P010309 - TX 1005**Blank (P010309-BLK1)**

Prepared & Analyzed: 09/03/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

LCS (P010309-BS1)

Prepared & Analyzed: 09/03/20

C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

LCS Dup (P010309-BSD1)

Prepared & Analyzed: 09/03/20

C6-C12	986	25.0	mg/kg wet	1000		98.6	75-125	0.841	20	
>C12-C28	1130	25.0	"	1000		113	75-125	1.91	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

Calibration Check (P010309-CCV1)

Prepared & Analyzed: 09/03/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	557	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Calibration Check (P010309-CCV2)

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	492	25.0	mg/kg wet	500		98.4	85-115			
>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	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 Ridge Nose
Project Number: PP-2083
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 P0I0309 - TX 1005**Calibration Check (P0I0309-CCV3)**

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	469	25.0	mg/kg wet	500		93.8	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			

Matrix Spike (P0I0309-MS1)

Source: 0I03004-12

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	811	26.3	mg/kg dry	1050	14.6	75.6	75-125			
>C12-C28	942	26.3	"	1050	38.8	85.8	75-125			
Surrogate: 1-Chlorooctane	85.1		"	105		80.8	70-130			
Surrogate: o-Terphenyl	36.9		"	52.6		70.1	70-130			

Matrix Spike Dup (P0I0309-MSD1)

Source: 0I03004-12

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	898	26.3	mg/kg dry	1050	14.6	84.0	75-125	10.4	20	
>C12-C28	1050	26.3	"	1050	38.8	96.3	75-125	11.6	20	
Surrogate: 1-Chlorooctane	102		"	105		96.4	70-130			
Surrogate: o-Terphenyl	44.8		"	52.6		85.2	70-130			

Batch P0I0312 - TX 1005**Blank (P0I0312-BLK1)**

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

LCS (P0I0312-BS1)

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	956	25.0	mg/kg wet	1000		95.6	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	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 Ridge Nose
Project Number: PP-2083
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 P010312 - TX 1005**LCS Dup (P010312-BSD1)**

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	939	25.0	mg/kg wet	1000		93.9	75-125	1.84	20	
>C12-C28	1030	25.0	"	1000		103	75-125	0.657	20	
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

Calibration Check (P010312-CCV1)

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	513	25.0	mg/kg wet	500		103	85-115			
>C12-C28	498	25.0	"	500		99.5	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			

Matrix Spike (P010312-MS1)

Source: 0103005-19

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	1040	26.6	mg/kg dry	1060	14.3	96.8	75-125			
>C12-C28	1140	26.6	"	1060	10.6	106	75-125			
Surrogate: 1-Chlorooctane	122		"	106		114	70-130			
Surrogate: o-Terphenyl	58.5		"	53.2		110	70-130			

Matrix Spike Dup (P010312-MSD1)

Source: 0103005-19

Prepared: 09/03/20 Analyzed: 09/04/20

C6-C12	1050	26.6	mg/kg dry	1060	14.3	97.0	75-125	0.258	20	
>C12-C28	1140	26.6	"	1060	10.6	106	75-125	0.235	20	
Surrogate: 1-Chlorooctane	125		"	106		117	70-130			
Surrogate: o-Terphenyl	60.2		"	53.2		113	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 Ridge Nose
Project Number: PP-2083
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: 9/4/2020

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.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Deva Services

Company Address: 12600 WCR 91

City/State/Zip: Midland, TX 79707

Telephone No: 432-230-0920

Sampler Signature: Joe Belloe

e-mail:

Fax No:

Sylvia Reynolds
Steph Kidd
Erin Smith
Kylin Long

Project Name: Plans Redesign

Project #: PP-2083

Project Loc: Eddy 6, NM

PO #: SRS 2020-062

Report Format:

Standard

TRRP

NPDES

ORDER #: OID3005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	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 ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TPH 8015 M Ext	Chlorides	Matrix	Preservation & # of Containers
1	NW-4 @ 5'	5'	5'	09/02/20	954		1																		
2	NW-7 @ 2'	2'	2'	09/02/20	1111		1																		
3	NW-8 @ 12'	12'	12'	09/02/20	1314		1																		
4	SW-8 @ 2'	2'	2'	09/02/20	945		1																		
5	SW-9 @ 5'	5'	5'	09/02/20	948		1																		
6	SW-10 @ 12'	12'	12'	09/02/20	1307		1																		
7	NW-10 @ 12'	12'	12'	09/02/20	1307		1																		
8	EW-8 @ 2'	2'	2'	09/02/20	942		1																		
9	EW-9 @ 6'	6'	6'	09/02/20	948		1																		
10	EW-10 @ 12'	12'	12'	09/02/20	1313		1																		

Special Instructions:

Relinquished by: MIKE BARBARO Date: 9-3-20 Time: 15:03 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: _____

TPH:	
TOTAL:	

Analyze For:

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

Laboratory Comments:
Sample Containers Clean? Y
WOCs Free of Headspace? Y
Labels on Containers? Y
Custody seals on containers? Y
Custody seals on caps? Y
Sample Hand Delivered? Y
by Sampler/Client Rep.? Y
Temperature Upon Receipt: 14.9 °C
by Courier? Y UPS Y DHL Y FedEx Y
Adjusted: 14.9 °C Factor 0.97



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-886-7235

Project Manager: Sylvia Reynolds

Company Name: Acorn Service

Company Address: 12222 WCE 91

City/State/Zip: Midland, TX 79707

Telephone No: 432-230-0920

Sampler Signature: Joe Belloe

Fax No: _____
e-mail: _____

(Lab use only)

ORDER #: OI08005

Preservation & # of Containers

Matrix

Analyze For:

TCLP: _____
TOTAL: _____

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

Project Name: Plains Ridgeview

Project #: PP-2053

Project Loc: Eddy Co, NM

PO #: SRS 2020-062

Report Format:

Standard

TRRP

NPDES

LAB # (Lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	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 ₄ , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TPH 8015 <u>Chloride</u>	Matrix	Laboratory Comments	
11	BH-68 @ 1'	1'	1'	09/02/20	8:23		1	✓								Solid							
12	BH-69 @ 1'	1'	1'	09/02/20	8:20		1	✓								Solid							
13	BH-70 @ 1'	1'	1'	09/02/20	8:18		1	✓								Solid							
14	BH-71 @ 4'	4'	4'	09/02/20	11:01		1	✓								Solid							
15	BH-72 @ 4'	4'	4'	09/02/20	11:04		1	✓								Solid							
16	BH-73 @ 4'	4'	4'	09/02/20	11:07		1	✓								Solid							
17	BH-74 @ 9'	9'	9'	09/02/20	9:55		1	✓								Solid							
18	BH-75 @ 9'	9'	9'	09/02/20	9:58		1	✓								Solid							
19	BH-26 @ 15'	15'	15'	09/02/20	13:02		1	✓								Solid							

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Temperature Upon Receipt:

Temperature Upon Receipt:

Temperature Upon Receipt:

by Sampler/Client Rep.?

by Sampler/Client Rep.?

by Sampler/Client Rep.?

UPS

DHL

FedEx

Lane Star

Lane Star

Lane Star

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION

Photograph No 1.

Date: July 15, 2020

Direction: South

Description: View of excavation activities adjacent to LACT unit.



Photograph No 2.

Date: July 24, 2020

Direction: South

Description: View of release activities adjacent to LACT unit.



Photograph No 3.

Date: August 10, 2020

Direction: East

Description: View of impacted soils remaining beneath LACT unit.



Photograph No 4

Date: August 20, 2020

Direction: South

Description: View of excavation activities and partial backfilling of site.



Photograph No 5.

Date: December 21, 2020

Direction: East

Description: View of completed backfill of site.



Photograph No 6

Date: December 21, 2020

Direction: North

Description: View of completed backfill of site.



APPENDIX E
NMOCD VARIANCE AND BLM CONCURRENCE EMAIL
APPROVAL

Amber L Groves

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, November 10, 2020 10:40 AM
To: Amber L Groves
Subject: RE: NRM2019635761 Plains COG Ridgenose Fed Com 1H [External]

11/10/2020

PAALP

Amber Groves – Plains

As per your request regarding guidance for the above mentioned release (nRM2019635761) the following:

The Oil Conservation Division (OCD) accepts that encountered chloride levels in soil, based on levels and locations indicated in data stream are likely not the result of Plains activities relative to the release in question, and as such no additional chloride evaluation is required.

At this time OCD would tend to agree with the likely request of deferral for hydrocarbon contamination, however, this still needs to be specifically addressed in closure report for actual approval of any deferral.

OCD appreciates your efforts and looks forward to the Closure Report.

Sincerely,

Bradford Billings

EMNRD/OCD

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Amber L Groves

From: Wade, Kelsey L <kwade@blm.gov> on behalf of CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Sent: Thursday, November 12, 2020 9:21 AM
To: Amber L Groves
Subject: Re: [EXTERNAL] FW: NRM2019635761 Plains COG Ridgenose Fed Com 1H [External]

Good morning,

BLM concurs with OCD's approval.

Kelsey

From: Amber L Groves <ALGroves@paalp.com>
Sent: Tuesday, November 10, 2020 9:57 AM
To: CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Subject: [EXTERNAL] FW: NRM2019635761 Plains COG Ridgenose Fed Com 1H

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Morning,

Below and attached is all data and subsequent approval that has been submitted to NMOCD regarding a variance request for the release that Plains had at the COG Ridgenose Fed Com1H Battery on 7/3/2020. Please feel free to give me a call at (575-200-5517) 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: Amber L Groves
Sent: Friday, September 4, 2020 10:02 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: NRM2019635761 Plains COG Ridgenose Fed Com 1H

Good Morning, Bradford!

I called you a few weeks ago regarding a site that I was having issues with. You had directed me to send you an e-mail about it with the data and indicated that you would take this project on, which I truly appreciate! Below is an explanation of the variances I am asking for. This is two parts, as I will be requesting a deferral for the LACT area. I

will also be requesting to cease excavation for Chlorides based on elevated background sampling. Attached are initial delineation and confirmation sampling chemistry tables, maps and a photo log.

A karst map utilizing BLM data is attached showing medium karst. A discussion with BLM indicated that medium Karst areas need to be treated as high karst so the most stringent Table 1 criteria are being used. Groundwater research indicates the closest wells are 2.45 miles and 4 miles from the site with depths to groundwater being 145 and 120 bgs respectively.

When I had called you, I had a BTEX issue inside the LACT unit shown in sample point EW-2 @4' with a BTEX concentration of 157.76 mg/kg. This area was further excavated and re-sampled as EW-2 @4' with a concentration of 0.05332 mg/kg. Our Pump West Wall @ 4' was also above regulatory guidelines with a Benzene concentration of 25.3 mg/kg and total BTEX of 322.7 mg/kg. Total TPH was also elevated with a result of 21,330 mg/kg. Delineation sample labeled as AHW, was taken from the Pump West Wall sample at an angle underneath the LACT Unit. Delineation data shows a decline in BTEX and TPH concentrations, with delineation achieved for BTEX at 1' and TPH at 7'. Delineation sample labeled as AHF was also taken to characterize vertical extent of impact. TPH showed a steady decline from 7' bgs to 24' bgs with a final total TPH result of <28.7 mg/kg. Plains is respectfully requesting a deferral for the LACT unit area as excavation has been executed to the extent practicable in relation to existing infrastructure and has demonstrated vertical and horizontal delineation for BTEX and TPH.

Elevated chlorides have also been observed in the initial site delineation and excavation activities. All initial sampling and confirmation sampling at the source of the release, Plains LACT unit, do not indicate elevated chlorides. As such, a chloride sample was taken outside of the release area, labeled WH-1-surface and can be seen on the map as being in close relation to the wellhead. This sample showed chloride levels at 2,380 mg/kg. As Plains is a crude oil transporter, and elevated chlorides have been observed outside of Plains' release area, we believe it to be from a separate source and respectfully request to cease excavation on a chloride basis. 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*

Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

**APPENDIX F
WASTE MANIFESTS**

Plains Pipeline LP - Caliche

<i>Receive Date</i>	<i>Lease Name</i>	<i>Weight (Tons)</i>
8/21/2020	Ridge Nose Battery	248.79
8/24/2020	Ridge Nose Battery	317.92
8/25/2020	Ridge Nose Battery	230.65
8/26/2020	Ridge Nose Battery	265.81
8/27/2020	Ridge Nose Battery	361.80
		1,424.97
		<i>Tons</i>

Lea Land Landfill New Mexico
Mile Market # 64 US Highway 62/180
30 miles East of Carlsbad, NM * (505) 887-4048

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 U.S. HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Hulk
21dp

NON-HAZARDOUS WASTE MANIFEST NO **138230** 1. PAGE ___ OF ___ 2. TRAILER NO. *21dp*

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/21/2020
	PHONE NO. (713) 846-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R E S S O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt-Vol.	11. TEXAS WASTE ID #
		No.	Type			
	Non-Regulated, Non Hazardous Waste	1	CM			
	b.					
	c.					
	WT: 43420 44440 44940					

A T O R	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
	TO 132800	

T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME Joe	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRIPLE C OILFIELD SERVICES	NAME:
	TEXAS I.D. NO. JOSE CARTA	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786	IN CASE OF EMERGENCY CONTACT:

T R A N S P O R T E R S	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME PEDRO PEÑA	PRINTED-TYPED NAME _____
	SIGNATURE PEDRO PEÑA DATE 8/21/2020	SIGNATURE _____ DATE _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	-------------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE 8/21/2020	TIME 705
----------------------	----------	-----------------------	-----------------

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Handwritten: 265

NON-HAZARDOUS WASTE MANIFEST NO **138231** 1. PAGE ___ OF ___ 2. TRAILER NO. **265**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/21/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
		No.	Type			
N	a. Non-Regulated, Non Hazardous Waste	1	CM			
	b.					
	c.					

Handwritten: 4488D 4326D 4578D

A	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
	<i>Handwritten:</i> TC 13392D	

T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME Joe	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRIPLE C OILFIELD SERVICES	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:

18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED TYPED NAME PASCUAL V Lopez	PRINTED TYPED NAME _____
SIGNATURE <i>[Signature]</i> DATE 8-21-20	SIGNATURE _____ DATE _____

D I S P O S I T I O N	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
--	---------------	---	------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/21/2020	TIME 705
--	----------	-----------------------	--------------------

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
02

NON-HAZARDOUS WASTE MANIFEST

NO **138232**

1. PAGE ___ OF ___

2. TRAILER NO. **# 02**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 800	5. PICK-UP DATE 8/21/2020		
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS	9. TOTAL	10. UNIT
	a. Non-Regulated, Non Hazardous Waste		No. 1	QUANTITY	Wt/Vol.
	b.		Type CM		
R	c.				
	WGT: 43740 43220 42680				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.	
	TE 129640				
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME	SIGNATURE			DATE
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA		IN CASE OF EMERGENCY CONTACT:		
	(432) 634-3786				
EMERGENCY PHONE:		EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED TYPED NAME JHI MESHER		PRINTED TYPED NAME _____			
SIGNATURE JHI MESHER		SIGNATURE _____			
DATE 8/21/2020		DATE _____			
D I S P O S I T A L Y	ADDRESS: Lea Land, LLC		PHONE: 575-887-4048		
	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM				
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS			
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE [Signature]		CELL NO. _____	DATE 8/21/2020	TIME 7:50	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138233** 1. PAGE ___ OF ___ 2. TRAILER NO. **#005**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline. LP		4. ADDRESS 505 Big Spring St. Suite 600			5. PICK-UP DATE 8/21/2020	
	PHONE NO. (713) 648-4100		CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.	
N E R E A R T Y	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS	9. TOTAL
	Non-Regulated, Non Hazardous Waste					No. 1	QUANTITY
						Type CM	10. UNIT
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS. RIDGE NOSE BATTERY					13. WASTE PROFILE NO.	
	Te 1289W						
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME: JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.		
D I S P O S I T I O N	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED TYPED NAME			SIGNATURE		DATE	
D I S P O S I T I O N	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: TRIPLE C OILFIELD SERVICES			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T I O N	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED TYPED NAME <i>Louise Halgum</i>			PRINTED TYPED NAME _____			
	SIGNATURE <i>Louise Halgum</i>			SIGNATURE _____			
D I S P O S I T I O N	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
D I S P O S I T I O N	AUTHORIZED SIGNATURE <i>Joe Ontiveros</i>			CELL NO.		DATE 8/21/2020	TIME 805

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C #027

NON-HAZARDOUS WASTE MANIFEST NO **138234** I. PAGE ___ OF ___ 2. TRAILER NO. **#027**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/21/2020		
	PHONE NO. (713) 648-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt./Vol.
	a.				
	b.				
	c.				
R	d. WT: 51000 47620				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY		13. WASTE PROFILE NO.		
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED TYPED NAME		SIGNATURE		DATE
T	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES		17. TRANSPORTER (2)		
	TEXAS I.D. NO. JOSE CARTA		NAME:		
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786		TEXAS I.D. NO.		
	EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:		EMERGENCY PHONE:		
R	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME Alegarzo Sacn2		PRINTED TYPED NAME _____		
	SIGNATURE <i>[Signature]</i> DATE 8/21/2020		SIGNATURE _____ DATE _____		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
A	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.	DATE 8/21/2020	TIME 810

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62.180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST

NO **138250**

1. PAGE ___ OF ___

2. TRAILER NO. **027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP		4. ADDRESS 505 Big Spring St. Suite 600			5. PICK-UP DATE 8/21/2020			
	PHONE NO. (713) 646-4100		CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.			
N E R E C E I V E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No.	9. TOTAL QUANTITY	10. UNIT Wt./Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste					1	CM		
	b.								
A U T H O R I Z E D	c.								
	WT: 51,460								
T R A N S P O R T E R S	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY					13. WASTE PROFILE NO.			
	TO 51,460								
D I S P O S I T Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME JOE ONTIVEROS			PHONE NO. 575-887-4048			24-HOUR EMERGENCY NO.		
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	PRINTED/TYPED NAME			SIGNATURE			DATE		
D I S P O S I T Y	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
	NAME: TRIPLE C OILFIELD SERVICES				NAME:				
D I S P O S I T Y	TEXAS I.D. NO.				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786				IN CASE OF EMERGENCY CONTACT:				
D I S P O S I T Y	EMERGENCY PHONE:				EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material				
D I S P O S I T Y	PRINTED/TYPED NAME X Alejandro Saez				PRINTED/TYPED NAME _____				
	SIGNATURE X [Signature] DATE 8/21/2020				SIGNATURE _____ DATE _____				
D I S P O S I T Y	Lea Land, LLC			ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS					
D I S P O S I T Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE [Signature]			CELL NO.			DATE 8/21/2020		TIME 3:50

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
027

NON-HAZARDOUS WASTE MANIFEST

NO **138251**

1. PAGE ___ OF ___

2. TRAILER NO. **# 027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St Suite 600			5. PICK-UP DATE 8/24/2020	
	PHONE NO. (713) 646-4100	CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.	
N E M O D E L	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No.	9. TOTAL QUANTITY
	Non-Regulated, Non Hazardous Waste				1	CM
	b.					
A U T H O R I Z E D	c.					
	WGT: 59,400 46560 48960 48600					
T R A N S P O R T E R S	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY				13. WASTE PROFILE NO.	
	To 144200					
D I S P O S I T A L	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME: JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
F A C I L I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
D I S P O S I T A L	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES			NAME:		
D I S P O S I T A L	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T A L	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
D I S P O S I T A L	PRINTED/TYPED NAME: Alejandro Sarmiento			PRINTED/TYPED NAME: _____		
	SIGNATURE: <i>[Signature]</i> DATE: 8/24/2020			SIGNATURE: _____ DATE: _____		
D I S P O S I T A L	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS		
D I S P O S I T A L	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE: <i>[Signature]</i>		CELL NO. _____		DATE: 8/24/2020	TIME: 725

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138252** 1. PAGE ___ OF ___ 2. TRAILER NO. **005**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/24/2020	
	PHONE NO. (713) 646-4100	CITY Midland	STATE TX	ZIP 79701

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt./Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non-Hazardous Waste	1	CM			
b.					
c.					
d. WT. 44580 36820 42760					

12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
--	-----------------------

TC 124160

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED TYPED NAME	SIGNATURE	DATE
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16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO.: IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO.: IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
--	---

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Miguel Hoiguin</i> SIGNATURE <i>Miguel H</i> DATE 8/24/2020	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
--	---

DISPOSAL SITE ADDRESS: Lea Land, LLC	DISPOSAL SITE ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
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PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>Ontiveros</i>	CELL NO. _____	DATE 8/24/2020	TIME 740
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62.180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

EWK
#266

NON-HAZARDOUS WASTE MANIFEST NO **138253** 1. PAGE ___ OF ___ 2. TRAILER NO. **#266**

G E	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/24/2020
	PHONE NO. (713) 646-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.

N E R A	7. NAME OR DESCRIPTION OF WASTE SHIPPED: a. Non-Regulated, Non-Hazardous Waste b. c.	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
		No.	Type			
		1	CM			
	WT. 38,400 42,180 45,280					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.				
	Te 125860					

T O R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRIPLE C OILFIELD SERVICES	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:
	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME PEDRO PEÑA	PRINTED/TYPED NAME _____
	SIGNATURE PEDRO PEÑA DATE 8/24/2020	SIGNATURE _____ DATE _____

D I S P O S I T A L Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
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PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/24/2020	TIME 740
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk
265

NON-HAZARDOUS WASTE MANIFEST

NO **138254**

1. PAGE ___ OF ___

2. TRAILER NO.

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 605 Big Spring St. Suite 600	5. PICK-UP DATE 8/24/2020			
	PHONE NO. (713) 646-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.			
R E C E I V E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non Regulated, Non Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt Vol.	11. TEXAS WASTE ID #
	a.					
	b.					
A U T H O R I Z E D	c.					
	d. WT. 54100 39080 42640 43320					
T R A N S P O R T E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.		
	TC 1250AD					
D I S P O S I T O R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.			
D I S P O S I T O R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME	SIGNATURE		DATE		
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
	NAME: TRIPLE C OILFIELD SERVICES		NAME:			
	TEXAS I.D. NO. JOSE CARTA		TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786		IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE		EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED-TYPED NAME Victor Loya		PRINTED-TYPED NAME _____				
SIGNATURE <i>[Signature]</i> DATE 8-24-20		SIGNATURE _____ DATE _____				
D I S P O S I T O R	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.	DATE 8/24/2020	TIME 750		

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
02

NON-HAZARDOUS WASTE MANIFEST NO **138255** 1. PAGE ___ OF ___ 2. TRAILER NO. **02**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline. LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/24/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R T I C A T I O N	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
		No.	Type			
a.	Non-Regulated, Non Hazardous Waste	1	CM			
b.						
c.						

Wt: **42100 4200 42920**

12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
--	-----------------------

TC 127040

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
---	--

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME JAIMESHER SIGNATURE _____ DATE 8/24/2020	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
---	---

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---------------	---	------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/24/2020	TIME 820
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Yulk

NON-HAZARDOUS WASTE MANIFEST

NO **138271**

1. PAGE ___ OF ___

2. TRAILER NO. *24de*

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/25/2020		
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS	9. TOTAL	10. UNIT
	Non-Regulated, Non Hazardous Waste		No. Type	QUANTITY	Wt/Vol.
			1 CM		
R	b.				
	c.				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY		13. WASTE PROFILE NO.		
	WT: 4,880 45,620 44,320		TC 131,820		
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME: JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME		SIGNATURE		DATE
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786		IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE:		EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME: PEDRO PEÑA		PRINTED/TYPED NAME _____			
SIGNATURE: X PEDRO PEÑA DATE: 8/25/2020		SIGNATURE _____ DATE _____			
D I S P O S I T A L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE: Santos Montalvo		CELL NO.	DATE: 8/25/2020	TIME: 7:00	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

FILK

NON-HAZARDOUS WASTE MANIFEST NO **138272** 1. PAGE ___ OF ___ 2. TRAILER NO. **265**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/25/2020		
	PHONE NO. (713) 646-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	a.				
	b.				
	c.				
R	d. WT: 42,780 40,920 42,320				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY		13. WASTE PROFILE NO. TC 126,020		
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME	SIGNATURE		DATE	
T	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES		17. TRANSPORTER (2)		
	TEXAS I.D. NO. JOSE CARTA		NAME:		
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786		TEXAS I.D. NO.		
	EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT:		
S	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME Victor Loys DATE 8/25/2020		PRINTED/TYPED NAME _____		
	SIGNATURE <i>[Signature]</i> DATE 8/25/2020		SIGNATURE _____ DATE _____		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
L	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO. /	DATE 8/25/2020	TIME 7:05

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138273** 1. PAGE OF 2. TRAILER NO. **005**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/25/2020
	PHONE NO. (713) 648-4100	CITY Midland STATE TX ZIP 79701	6. TNRC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a.	No.			
Non-Regulated, Non Hazardous Waste		1	CM		
b.					
c.					
WT. 42,920 39,900					

12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO. TC 82,820
--	---

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786 EMERGENCY PHONL:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
---	--

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Toniqvel Harguin SIGNATURE Toniqvel H DATE 8/25/2020	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____
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DISPOSAL FACILITY	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
-------------------	---------------	---	------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE Santos Montaloz	CELL NO.	DATE 8/25/2020	TIME 7:35
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
28

NON-HAZARDOUS WASTE MANIFEST NO **138274** 1. PAGE ___ OF ___ 2. TRAILER NO. *28*

G E N E R A T O R	3. COMPANY NAME: Plains Pipeline, LP	4. ADDRESS: 505 Big Spring St. Suite 600	5. PICK-UP DATE: 8/25/2020
	PHONE NO: (713) 646-4100	CITY: Midland STATE: TX ZIP: 79701	6. TNRCC I.D. NO.:

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste	8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt./Vol.	11. TEXAS WASTE ID #
	a.				
	b.				
	c.				
	d. WT: 4,620				
A T T R I B U T O R	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				

T R A N S P O R T E R S	NAME: JOE ONTIVEROS	PHONE NO: 575-887-4048	24-HOUR EMERGENCY NO.
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC		

PRINTED TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRIPLE C OILFIELD SERVICES	NAME:
	TEXAS I.D. NO. JOSE CARTA	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786	IN CASE OF EMERGENCY CONTACT:

18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED TYPED NAME: JHIMESH	PRINTED TYPED NAME: _____
SIGNATURE: <i>JHIMESH</i>	SIGNATURE: _____
DATE: 8/25/2020	DATE: _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

D I S P O S I T Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE: <i>Santos Gonzalez</i>	CELL NO. _____	DATE: 8/25/2020	TIME: 8:00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138275** 1. PAGE OF 2. TRAILER NO. **027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/25/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.				
	c.				
	d. WGT: 49,460				

12. COMMENTS OR SPECIAL INSTRUCTIONS:
RIDGE NOSE BATTERY

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.
------------------------------	----------------------------------	-----------------------

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material
PRINTED-TYPED NAME: **Alexandro Sagan** DATE: **8/25/2020**
SIGNATURE: *[Signature]* DATE: _____

19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED-TYPED NAME: _____
SIGNATURE: _____ DATE: _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/25/2020	TIME 8:05
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138276** 1. PAGE ___ OF ___ 2. TRAILER NO. **02**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/25/2020
	PHONE NO. (713) 848-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste	8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a.				
	b.				
	c.				

Wt: **42,440**

12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
--	-----------------------

T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Hector Arzoo DATE 8/25/2020 SIGNATURE <i>[Signature]</i> DATE	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE
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D I S P O S I T A L Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		
	AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/25/2020

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST NO **138291** 1. PAGE ___ OF ___ 2. TRAILER NO. **265**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 605 Big Spring St. Suite 600	5. PICK-UP DATE 8/26/2020	
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.	
R I D G E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS	9. TOTAL QUANTITY
	Non-Regulated, Non Hazardous Waste		No. Type	10. UNIT Wt/Vol.
	b.		1	CM
A U T H O R I Z E D	c.			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY		13. WASTE PROFILE NO.	
14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
NAME JOE ONTIVEROS		PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.	
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
PRINTED TYPED NAME		SIGNATURE		DATE

T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)	
	NAME: TRIPLE C OILFIELD SERVICES		NAME:	
	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786		IN CASE OF EMERGENCY CONTACT:	
EMERGENCY PHONE:		EMERGENCY PHONE:		
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
PRINTED, TYPED NAME Victor Lopez		PRINTED, TYPED NAME _____		
SIGNATURE <i>Victor Lopez</i> DATE 8/26/2020		SIGNATURE _____ DATE _____		

D I S P O S I T Y	Lea Land, LLC		ADDRESS:	PHONE:
			Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048
	PERMIT NO.	20 COMMENTS		
	WM-01-035 - New Mexico			
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE		CELL NO.	DATE	TIME
<i>Antes Gonzalez</i>		<i>/</i>	8/26/2020	7:20

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST NO **138292** 1. PAGE ___ OF ___ 2. TRAILER NO. *2110*

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP		4. ADDRESS 505 Big Spring St. Suite 600			5. PICK-UP DATE 8/28/2020			
	PHONE NO. (713) 646-4100		CITY Midland	STATE TX	ZIP 79701		6. TNRCC I.D. NO.		
N E R T E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste					8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt Vol.	11. TEXAS WASTE ID #
	b.								
	c.								
A T T R I B U T E	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY					13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
O F F I C E R	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.				
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
T R A N S P O R T E R S	PRINTED/TYPED NAME				SIGNATURE			DATE	
	16. TRANSPORTER (1) TRIPLE C OILFIELD SERVICES				17. TRANSPORTER (2)				
D I S P O S I T A L Y	NAME:				NAME:				
	TEXAS I.D. NO.				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT:				IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:				EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material					
PRINTED/TYPED NAME PEDRO PEÑA				PRINTED/TYPED NAME _____					
SIGNATURE <i>PEDRO PEÑA</i>				SIGNATURE _____					
DATE 8/28/2020				DATE _____					
20. COMMENTS			DATE 8/28/2020			TIME 4:35			
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			AUTHORIZED SIGNATURE <i>Antes Gonzalez</i>			CELL NO. _____			
Lea Land, LLC			ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
PERMIT NO. WM-01-035 - New Mexico									

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 U'S HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST

NO **138293**

1. PAGE ___ OF ___

2. TRAILER NO. **02**

G	3. COMPANY NAME Plains Pipeline. LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/26/2020		
	PHONE NO. (713) 646-4100	CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.
E N E R G Y	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS	9. TOTAL	10. UNIT
	a. Non-Regulated, Non Hazardous Waste		No. 1	QUANTITY	Wt/Vol.
	b.		Type CM		
	c.				
R A T E	d. WT: 36,420 40,140				
	12. COMMENTS OR SPFCIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.	
T O R Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.		
O R D E R	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINT-D/TYPED NAML	SIGNATURE			DATE
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786		IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE:		EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINT-D/TYPED NAML Hector Arzola		PRINTED, TYPED NAME _____			
SIGNATURE [Signature]		SIGNATURE _____			
DATE 8/26/2020		DATE _____			
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility. that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 8/26/2020	TIME 10:10

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKFR #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138294** 1. PAGE ___ OF ___ 2. TRAILER NO. **28**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 800	5. PICK-UP DATE 8/26/2020		
	PHONE NO. (713) 848-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non Regulated, Non Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt./Vol.
	a.				
	b.				
	c.				
R	d. WT. 35,540 39,820				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.	
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.	
O	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED TYPED NAME:		SIGNATURE		DATE
T	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES		NAME:		
	TEXAS I.D. NO.:		TEXAS I.D. NO.:		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 834-3786		IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:		EMERGENCY PHONE:		
R	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME: JAIMESAE		PRINTED TYPED NAME: _____		
	SIGNATURE: JAIMESAE DATE: 8/26/2020		SIGNATURE: _____ DATE: _____		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility. that the facility is authorized and permitted to receive such wastes.				
S	AUTHORIZED SIGNATURE: Santos Gonzalez		CELL NO.	DATE 8/26/2020	TIME 10:15

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST

NO **138295**

1. PAGE ___ OF ___

2. TRAILER NO. **027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/26/2020	
	PHONE NO. (713) 646-4100	CITY Midland	STATE TX	ZIP 79701
E N E R G Y	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste		8. CONTAINERS No. 1	Type CM
	9. TOTAL QUANTITY		10. UNIT Wt. Vol.	11. TEXAS WASTE ID #
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY		13. WASTE PROFILE NO.	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.	
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
	PRINTED/TYPED NAME:	SIGNATURE	DATE	
D I S P O S I T Y	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:		
	TEXAS I.D. NO. JOSE CARTA	TEXAS I.D. NO.		
D I S P O S I T Y	IN CASE OF EMERGENCY CONTACT: (432) 634-3786	IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:	EMERGENCY PHONE:		
D I S P O S I T Y	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME Alejandro Sarriz	PRINTED/TYPED NAME		
D I S P O S I T Y	SIGNATURE <i>[Signature]</i>	SIGNATURE		
	DATE 8/26/2020	DATE		
D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS		
D I S P O S I T Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/26/2020	TIME 10:30

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138296** 1. PAGE ___ OF ___ 2. TRAILER NO. **005**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/26/2020		
	PHONE NO. (713) 646-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt./Vol.
	a.				
	b.				
	c.				
R	d. 39,840 42,940				
	12. COMMENTS OR SPECIAL INSTRUCTIONS RIDGE NOSE BATTERY			13. WASTE PROFILE NO. TC 82,480	
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME		SIGNATURE		DATE
T	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRIPLE C OILFIELD SERVICES		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786		IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:		EMERGENCY PHONE:		
R	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME Xmiquel Holgun DATE 8/26/2020		PRINTED TYPED NAME _____		
	SIGNATURE Xmiquel H DATE _____		SIGNATURE _____ DATE _____		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
S	AUTHORIZED SIGNATURE XMonte Gonzalez		CELL NO. _____	DATE 8/26/2020	TIME 10:25

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138311** 1. PAGE ___ OF ___ 2. TRAILER NO. **027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/26/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R T I C A T I O N	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
		No.	Type			
	Non-Regulated, Non Hazardous Waste	1	CM			
	b.					
	c.					
	WT: 50,300					

12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
--	-----------------------

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME: JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: TRIPLE C OILFIELD SERVICES	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME: Alejandro Saenz	PRINTED/TYPED NAME: _____
SIGNATURE: <i>[Signature]</i>	SIGNATURE: _____
DATE: 8/26/2020	DATE: _____

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---------------	--	----------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
--	--------------

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: <i>[Signature]</i>	CELL NO.	DATE: 8/26/2020	TIME: 3:55
--	----------	------------------------	-------------------

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138313** 1. PAGE ___ OF ___ 2. TRAILER NO. **28**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 800	5. PICK-UP DATE 8/27/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R E G I S T E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste	8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt-Vol.	11. TEXAS WASTE ID #
	a.				
	b.				
	c.				
	d. WT. 41,880 34,720 41,240				

A T R A N S P O R T E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY	13. WASTE PROFILE NO.
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME: JOE ONTIVEROS PHONE NO: 575-887-4048 24-HOUR EMERGENCY NO.	

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO. JOSE CARTA	TFXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME JOAQUIN MESA SIGNATURE JOAQUIN MESA DATE 8/27/2020		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		
	AUTHORIZED SIGNATURE Santos Gonzalez	CELL NO.	DATE 8/27/2020

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62.180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST

NO **138314**

1. PAGE ___ OF ___

2. TRAILER NO. **02**

G

3. COMPANY NAME
Plains Pipeline, LP

4. ADDRESS
505 Big Spring St. Suite 600

5. PICK-UP DATE
8/27/2020

E

PHONE NO
(713) 648-4100

CITY
Midland

STATE
TX

ZIP
79701

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non-Hazardous Waste

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt-Vol.

11. TEXAS WASTE ID #

a.

b.

c.

R

WT. **39,620 38,480 36,880**

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:
RIDGE NOSE BATTERY

13. WASTE PROFILE NO.

TC 114,980

T

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME
JOE ONTIVEROS

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16. **TRANSPORTER (1)**
NAME: **TRIPLE C OILFIELD SERVICES**
TEXAS I.D. NO.: **JOSE CARTA**
IN CASE OF EMERGENCY CONTACT: **(432) 634-3786**
EMERGENCY PHONE:

17. **TRANSPORTER (2)**
NAME:
TEXAS I.D. NO.:
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

S

18. **TRANSPORTER (1):** Acknowledgment of receipt of material
PRINTED TYPED NAME **Heater Arzola**
SIGNATURE *[Signature]* DATE **8/27/2020**

19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED TYPED NAME _____
SIGNATURE _____ DATE _____

D

DISPOSAL FACILITY
Lea Land, LLC

ADDRESS:
Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:
575-887-4048

PERMIT NO.
WM-01-035 - New Mexico

20. COMMENTS

L

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
[Signature]

CELL NO.

DATE
8/27/2020

TIME
7:25

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST

NO **138315**

1. PAGE ___ OF ___

2. TRAILER NO. **2105**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/27/2020		
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste		8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol
	b.				
N	c.				
	d. WT. 41,740 45,260 46,260				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.	
	TC 133,210				
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME		SIGNATURE		DATE
R	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES		17. TRANSPORTER (2)		
	TEXAS I.D. NO. JOSE CARTA		NAME:		
T	IN CASE OF EMERGENCY CONTACT: (432) 634-3786		TEXAS I.D. NO.		
	EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT:		
R	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME VICTOR LOYA		PRINTED/TYPED NAME		
S	SIGNATURE Victor Loya		SIGNATURE		
	DATE 8/27/2020		DATE		
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
I	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO.	DATE 8/27/2020	TIME 7:30

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST

NO **138316**

1. PAGE ___ OF ___

2. TRAILER NO. *2LW*

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP		4. ADDRESS 505 Big Spring St. Suite 600			5. PICK-UP DATE 8/27/2020			
	PHONE NO. (713) 648-4100		CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.			
N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste					8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt-Vol.	11. TEXAS WASTE ID #
	a.								
	b.								
	c.								
A T T R I B U T O R	d. WT. 45,420 45,080 45,320								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY						13. WASTE PROFILE NO.		
O B L I G A T O R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048			24-HOUR EMERGENCY NO.			
T R A N S P O R T E R S	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	PRINTED/TYPED NAME				SIGNATURE		DATE		
D I S P O S I T O R Y	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
	NAME: TRIPLE C OILFIELD SERVICES				NAME:				
	TEXAS I.D. NO. JOSE CARTA				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786				IN CASE OF EMERGENCY CONTACT:				
EMERGENCY PHONE:				EMERGENCY PHONE:					
18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material					
PRINTED TYPED NAME PEDRO PEÑA				PRINTED TYPED NAME _____					
SIGNATURE PEDRO PEÑA DATE 8/27/2020				SIGNATURE _____ DATE _____					
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
AUTHORIZED SIGNATURE Antes Gonzalez				CELL NO.		DATE 8/27/2020		TIME 7:35	

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62-180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138317** 1. PAGE ___ OF ___ 2. TRAILER NO. **027**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St Suite 600	5. PICK-UP DATE 8/27/2020
	PHONE NO. (713) 646-4100	CITY STATE ZIP Midland TX 79701	6. TNRCC I.D. NO.

N E R E G I S T E R E D	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.				
	c.				
	d. WT. 47,560 49,540 49,560				

12. COMMENTS OR SPECIAL INSTRUCTIONS:
RIDGE NOSE BATTERY

13. WASTE PROFILE NO.
TC 146660

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.
------------------------------	----------------------------------	-----------------------

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO. JOSE CARTA	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material
PRINTED/TYPED NAME **Alejandro Serna** DATE **8/27/2020**
SIGNATURE *[Signature]* DATE

19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED/TYPED NAME _____ DATE _____
SIGNATURE _____ DATE _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	-------------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
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21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 8/27/2020	TIME 7:45
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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C

NON-HAZARDOUS WASTE MANIFEST NO **138318** 1. PAGE ___ OF ___ 2. TRAILER NO. **005**

G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 505 Big Spring St. Suite 600	5. PICK-UP DATE 8/27/2020		
	PHONE NO. (713) 646-4100	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.		
E N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt./Vol.
	a.				
	b.				
	c.				
A T O R	d. WT. 40,400 38,440 4,280				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: RIDGE NOSE BATTERY			13. WASTE PROFILE NO.	
14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
T R A N S P O R T E R S	NAME JOE ONTIVEROS PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
D I S P O S I T Y	PRINTED/TYPED NAME		SIGNATURE		DATE
	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES		17. TRANSPORTER (2)		
D I S P O S I T Y	TEXAS I.D. NO. JOSE CARTA		NAME:		
	IN CASE OF EMERGENCY CONTACT: (432) 634-3786		TEXAS I.D. NO.		
	EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:		EMERGENCY PHONE:		
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
PRINTED/TYPED NAME Miguel Hargueta		PRINTED/TYPED NAME _____			
SIGNATURE Miguel H DATE 8/27/2020		SIGNATURE _____ DATE _____			
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
D I S P O S I T Y	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO. /	DATE 8/27/2020	TIME 8:00

TRIPLE
CALICHE

Plains Ridge Nose Battery 8-24-2020

NAME	GROSS	TARE	NET	TONS
TripleC#027	83160	34000	49160	24.58
TripleC#005	79140	34000	45140	22.57
Xulk#216	77720	35000	42720	21.36
Xulk#215	76080	35000	41080	20.54
TripleC#02	77140	35000	42140	21.07
TripleC#005	75940	34000	41940	20.97
Xulk#216	79660	35000	44660	22.48
Xulk#215	77640	35000	42640	21.32
TripleC#027	78460	34000	44460	22.23
TripleC#02	74220	35000	39220	19.61
TripleC#005	74460	34000	40460	20.23
TripleC#027	79260	34000	45260	22.63
Xulk#216	73900	35000	38900	19.45
Xulk#215	74120	35000	39120	19.56
TripleC#02	73640	35000	38640	19.32
			TC	317.92

TRIPLE C
CALICHE

Plains
Pipeline

Ridge Nose Battery

8.26.2021

NAME	GROSS	TARE	NET	TONS
Hulk # 265	72660	35000	37660	18.83
Hulk # 266	78560	35000	43560	21.78
Triple C # 02	73260	35000	38260	19.13
Triple C # 28	73620	34000	39620	19.81
Triple C # 027	81620	34000	47620	23.81
Triple C # 005	74280	34000	40280	20.14
Hulk # 265	74960	35000	39960	19.98
Triple C # 02	72040	35000	37040	18.52
Triple C # 28	74340	34000	40340	20.17
Triple C # 005	73320	34000	39320	19.66
Hulk # 266	76140	35000	41140	20.57
Hulk # 265	73540	35000	38540	19.27
Triple C # 027	82280	34000	48280	24.14
			TC 265.81	

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 16597

CONDITIONS OF APPROVAL

Operator:	PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	OGRID:	34053	Action Number:	16597	Action Type:	C-141
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OCD Reviewer	Condition
kcollins	Remediation to date is approved. Do not forget part 13 of the rule. Deferral is approved.