

Incident ID	nAPP2136249082
District RP	
Facility ID	
Application ID	

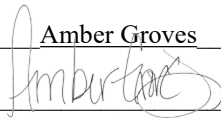
Closure

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

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

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

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

Printed Name: Amber Groves Title: Remediation Specialist
Signature:  Date: 2/1/2021
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: 03/17/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



12600 WEST CO RD 91

MIDLAND, TX 79707

OFFICE: 432.653.4203

SOIL REMEDIATION ACTIVITIES CLOSURE REPORT

PLAINS MARKETING, L.P.

THOMAS TRUCK STATION RELEASE

EDDY COUNTY, NM

NMOCD INCIDENT #: nAPP2136249082

SRS #: 2021-113

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January 26, 2022

New Mexico Oil Conservation Division District II
811 South 1st
Artesia, New Mexico 88210

Re: **Soil Remediation Activities Closure Report**

Thomas Truck Station Release

Unit Letter I, Section 23, Township 23S, Range 31E

GPS: N 32.2864°, W -103.7402°

Eddy County, New Mexico

NMOCD Incident #: nAPP2136249082

SRS #: 2021-113

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Closure Report to Plains Marketing, L.P. (Plains) to document the field soil remediation activities that were conducted at the Thomas Truck Station Release site. The crude oil release occurred, approximately 20.80 miles east of Loving in Eddy County, New Mexico in Unit Letter I, Section 23, Township 23S, and Range 31E. The GPS coordinates for the site is N 32.2864° and W -103.7402°. A "Site Location Map" and "Topographic Map" are provided as Figures 1 and 2, respectively. The surface is owned by the Bureau of Land Management (BLM).

2. Release Description and Response

The crude oil release which occurred at the Thomas Station was attributed to a pump seal failure on the LACT unit on December 27, 2021. The release was reported as approximately fifteen (15) barrels (bbls) of crude released with no (0) bbls recovered for a net loss of fifteen (15) bbls of crude oil. The release occurred on the facilities tank battery pad with surface land owned by the Bureau of Land Management (BLM). The releases measured approximately thirty (30) feet (ft) in length by seventy-five (75) ft in width with a maximum depth of two (2) ft below ground surface (bgs).

On December 27, 2021, Plains submitted the initial C-141 Form to the NMOCD and BLM. See Appendix A for filed C-141. Dean was assigned management oversight responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains on December 28, 2021.

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 are located in or near Unit Letter I, Section 23, Township 23S, and Range 31E. Neither of the two databases identified any registered water wells within a half mile of Unit Letter I, Section 23, Township 23S, and Range 31E. The nearest water well (C 02348) is approximately one (1) mile south of the site with a depth to groundwater at approximately 430 feet bgs. In addition, according to the Bureau of Land Management (BLM), the site is located in an area of low potential 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 not occur in referenced sensitive areas, with the nearest water body feature being the Pecos River located approximately 14.94 miles west southwest of the site. With the release located on a pad and no water wells located within a ½-mile radius of site, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons in areas of low 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 Release Soil Delineation Assessment with Sample Analysis

On December 30, 2021, Dean personnel were onsite to perform soil assessment activities at the release. A hand auger was utilized to collect soil samples from three (3) auger hole locations (AH-1, AH-2, and AH-3) within the release area. Grab soil samples were collected from the three (3) auger holes from surface to two (2) ft at one (1) ft intervals and placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to PBELAB for analysis of 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 3 "Delineation Soil Sample Location Map". The Benzene concentrations exceeded the NMOCD standards of 10 milligrams per kilograms (mg/Kg) for soil samples AH-1 Surface (18.5 mg/Kg) and AH-2 Surface (39.1 mg/Kg). All remaining soil samples analyzed for Benzene were either below method detection limits (MDL) or the NMOCD standard. Total BTEX concentrations exceeded the NMOCD standards of 50 mg/Kg for soil samples AH-1 Surface (753.60 mg/Kg), AH-2 Surface (1,708.1 mg/Kg), and AH-3 Surface (415.57 mg/Kg). All remaining soil samples analyzed for total BTEX were either below MDL or the NMOCD standards. The total TPH concentrations exceeded the NMOCD standards of 100 mg/Kg for soil samples AH-1 Surface (20,060 mg/Kg), AH-1 @ 1' (1,113 mg/Kg), AH-2 Surface (50,740 mg/Kg), AH-2 @ 1' (1,906 mg/Kg), AH-3 Surface (31,180 mg/Kg), and AH-3 @ 1' (107 mg/Kg). All remaining soil samples analyzed for Total TPH were below MDL. The chloride concentration exceeded the NMOCD standards of 600 mg/Kg for soil sample AH-3 Surface (799 mg/Kg). The chloride concentrations for the remaining samples were below the NMOCD standard of 600 mg/Kg. See Table 1 for initial delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix B.

5. Remediation Activities with Soil Sample Analysis

Between December 30, 2021, and January 5, 2022, Dean Personnel conducted oversight of soil delineation, remediation, and sampling activities at the site. Remediation commenced utilizing a backhoe and hand excavation of hydrocarbon impacted soils adjacent to the LACT unit and ancillary piping with the excavated soils stockpiled on plastic. In order to complete delineation and remediation of the release, field screening utilizing a photoionization detector (PID) and chloride field test kits was conducted on the soils. Based on field PID and chloride screening the site was initially excavated to depths ranging from eight (8) inches (in) to two (2) ft bgs. The release was contained on the pad adjacent to the LACT unit with excavation dimensions of approximately ninety (90) ft in length by fifteen (15) to thirty (30) ft in width.

Upon completion of the initial release, seven (7) composite bottom hole samples (BH-1 @ 8", BH-2 @ 2' through BH-7 @ 2') along with seven (7) wall composite samples (SW-1 @ 1', SW-2 @ 1', WW-1 @ 4', EW-1 @ 1', NW-1 @ 1', NW-2 @ 1', and NW-3 @ 1') were collected based on a 200 square foot grid 5-point composite and submitted to PBELAB for analysis of TPH, BTEX and chlorides. Analytical results for the samples were below the NMOCD Recommended Remediation Action Level (RRAL) for benzene, BTEX, TPH and chlorides. See Table 2 for confirmation analytical results. See Figures 5 and 6 for bottom and side wall sample locations. Laboratory reports containing analytical

methods, results, and chain-of-custody documents are included in Appendix B. See attached Photographs in Appendix C.

6. Soil Disposal and Closure Request

On January 28, 2021, approximately 96 cubic yards of soil was transported offsite for disposal at Northern Delaware Basin Landfarm in Jal, New Mexico. The site was then backfilled with locally sourced, non-impacted soil and brought up to surface grade and contoured to match surrounding topography. Manifests are available upon request.

With completion of the vertical and horizontal delineation, remediation of accessible soils, and backfilling of the excavation with locally sourced non-impacted soils, Plains respectfully requests that the NMOCD consider the site for closure. A C-141 deferral 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 Elizabeth Stuart (email: elizabethstuart@deandigs.com, cell: 432.227.5369) or Jeff Kindley (email: jeffreykindley@deandigs.com cell: 432.230.0920) of Dean.

Sincerely,



Elizabeth Stuart

Project Manager



Jeffrey Kindley, PG.

Professional Geologist

TABLES



Chemistry Table 1
Delineation Sampling of Benzene, BTEX, Chlorides, and TPH in soil
Plains Marketing, L.P.
Thomas Station Release
Eddy County, New Mexico

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
AH-1 Surface	12/30/21	Surf	GRAB	SOIL	18.5	237	87.5	410.6	753.60	147	6,220	11,600	17,820	2,240	20,060
AH-1 @ 1'	12/30/21	1'	GRAB	SOIL	<0.0215	0.0839	0.117	0.804	1.0049	25.1	260	700	960	153	1,113
AH-1 @ 2'	12/30/21	2'	GRAB	SOIL	<0.00104	<0.00104	<0.00104	<0.00208	<0.00104	2.4	<26.0	<26.0	<26.0	<26.0	<26.0
AH-2 Surface	12/30/21	Surf	GRAB	SOIL	39.1	558	186	925	1,708.1	31.8	19,300	26,800	46,100	4,640	50,740
AH-2 @ 1'	12/30/21	1'	GRAB	SOIL	0.00151	0.0241	0.0349	0.19228	0.25279	21.8	601	1,080	1,681	225	1,906
AH-2 @ 2'	12/30/21	2'	GRAB	SOIL	0.00899	0.0165	0.00176	0.00723	0.03448	3.28	27.2	<27.2	<27.2	<27.2	<27.2
AH-3 Surface	12/30/21	Surf	GRAB	SOIL	8.67	120	46.1	240.8	415.57	799	9,230	18,900	28,130	3,050	31,180
AH-3 @ 1'	12/30/21	1'	GRAB	SOIL	<0.00104	0.00144	<0.00104	0.00264	0.00408	46.6	<26.0	107	107	<26.0	107
AH-3 @ 2'	12/30/21	2'	GRAB	SOIL	<0.00106	<0.00106	<0.00106	<0.00213	<0.00106	10.9	<26.6	<26.6	<26.6	<26.6	<26.6
NMOCD Recommended Remediation Action Level					10	-	-	-	50	600	-	-	-	-	100

Exceeds NMOCD Recommended RAL



Chemistry Table 2
Confirmation Sampling of Benzene, BTEX, Chlorides, and TPH in Soil
Plains Marketing, L.P.
Thomas Station Release
Eddy County, New Mexico

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-1 @ 8"	01/05/22	8"	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	7.73	<25.8	<25.8	<25.8	<25.8	<25.8
BH-2 @ 2'	01/05/22	2'	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	6.31	<25.8	27	27	<25.8	27
BH-3 @ 2'	01/05/22	2'	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00206	<0.00103	7.67	<25.8	<25.8	<25.8	<25.8	<25.8
BH-4 @ 2'	01/05/22	2'	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	20.3	<25.5	<25.5	<25.5	<25.5	<25.5
BH-5 @ 2'	01/05/22	2'	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	20.4	<25.5	<25.5	<25.5	<25.5	<25.5
BH-6 @ 2'	01/05/22	2'	COMP	SOIL	<0.00103	0.00273	<0.00103	<0.00206	0.00273	26.5	<25.8	<25.8	<25.8	<25.8	<25.8
BH-7 @ 2'	01/05/22	2'	COMP	SOIL	<0.00106	0.00137	<0.00106	0.00694	0.00831	67.9	<26.6	29	29	<26.6	29
SW-1 @ 1'	01/05/22	1'	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00208	<0.00104	19.4	<26.0	<26.0	<26.0	<26.0	<26.0
SW-2 @ 1'	01/05/22	1'	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00208	<0.00104	9.51	<26.0	<26.0	<26.0	<26.0	<26.0
WW-1 @ 4"	01/05/22	4"	COMP	SOIL	<0.00104	<0.00104	<0.00104	0.00624	0.00624	79.9	<26.0	26.2	26.2	<26.0	26.2
EW-1 @ 1'	01/05/22	1'	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	2.88	<25.5	<25.5	<25.5	<25.5	<25.5
NW-1 @ 1'	01/05/22	1'	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	9.17	<25.5	<25.5	<25.5	<25.5	<25.5
NW-2 @ 1'	01/05/22	1'	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00202	<0.00101	15.1	<25.3	<25.3	<25.3	<25.3	<25.3
NW-3 @ 1'	01/05/22	1'	COMP	SOIL	<0.00103	0.00141	<0.00103	<0.00206	0.00141	5.75	<25.8	<25.8	<25.8	<25.8	<25.8
NMOCD Recommended Remediation Action Level					10	-	-	-	50	600	-	-	-	-	100
Exceeds NMOCD Recommended RAL					Soils were permanently removed from ground and disposed off at landfill										

FIGURES

Figure 1

Site Location Map

Plains Marketing, LLC

Thomas Truck Station Release

SRS: 2021-113

GPS: 32.28646, -103.74039

ULT "I", Section 23, Township 23S, Range 31E

Eddy County, NM



DEAN

Figure 2

Topographic Map
Plains Marketing, LLC
Thomas Truck Station Release
SRS: 2021-113
GPS: 32.28646, -103.74039
ULT "I", Section 23, Township 23S, Range 31E
Eddy County, NM

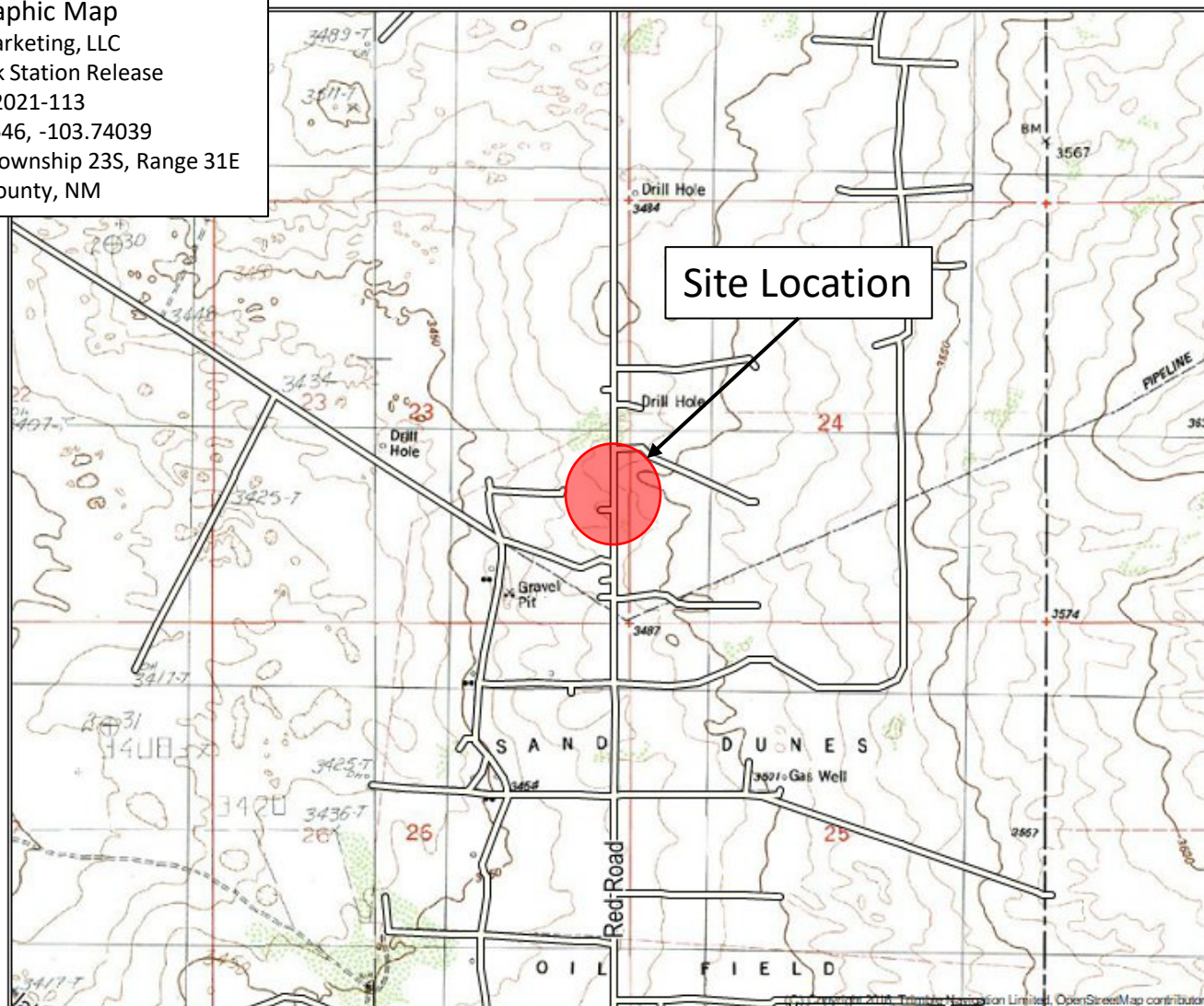
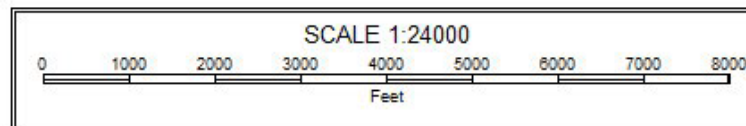
**DEAN**

Figure 3

Site Location Relative to Known
Regional Karst Topography Map

Plains Marketing, LLC

Thomas Truck Station Release

SRS: 2021-113

GPS: 32.28646, -103.74039

ULT "I", Section 23, Township 23S, Range 31E

Eddy County, NM



DEAN

Figure 4

Delineation Soil Sample Location Map

Plains Marketing LLC

Thomas Truck Station Release

SRS: 2021-113

GPS: 32.28646, -103.74039

ULT "I", Section 23, Township 23S, Range 31E

Eddy County, NM

Legend

Release Area:



Sample Location:



AH-2 AH-1
AH-3



100 ft

DEAN

Figure 5

Confirmation Soil Sample Location Map

Bottom Hole

Plains Marketing LLC

Thomas Truck Station Release

SRS: 2021-113

GPS: 32.28646, -103.74039

ULT "I", Section 23, Township 23S, Range 31E

Eddy County, NM

Legend

Excavation Area:



Sample Point:



BH-2 @ 2'

BH-3 @ 2'

BH-5 @ 2'

BH-1 @ 8"

BH-4 @ 2'

BH-6 @ 2'

BH-7 @ 8"



100 ft

DEAN

Figure 6

Confirmation Soil Sample Location Map

Side Wall

Plains Marketing LLC

Thomas Truck Station Release

SRS: 2021-113

GPS: 32.28646, -103.74039

ULT "I", Section 23, Township 23S, Range 31E

Eddy County, NM

Legend

Excavation Area:



Sample Point:



DEAN

APPENDIX A
NMOCD C-141 FORM

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	nAPP2136249082
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.28646

Longitude -103.74039

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Plains Marketing Thomas Station	Site Type Sales LACT
Date Release Discovered 04/10/2021 12/27/2021/rlm	API# (if applicable)

Unit Letter	Section	Township	Range	County
I	23	23S	31E	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)

☒ Crude Oil	Volume Released (bbls) 15 bbls	Volume Recovered (bbls) 0 bbls
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pump seal failure on the sales LACT.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2136249082
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

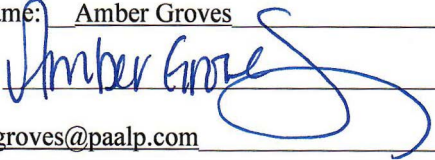
Initial Response*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Amber Groves Title: Remediation Coordinator
Signature:  Date: 12/30/2021
email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: _____ Date: _____

Amber L Groves

From: Alan Swartz
Sent: Thursday, December 30, 2021 1:20 PM
To: Amber L Groves
Subject: Thomas Truck Station, Spill Calculation for 12/27/21

Here are the volume calculations for the Thomas Truck Station release that occurred on 12/27/21.

10' X 20' X .5" X .0154 = 1.54 bbls

10' X 15' X 6" X .0154 = 13.86 bbls

Total of 15.4

Alan Swartz
District Manager
Plains Marketing L.P.
Hobbs NM, Pecos TX
Paswartz@paalp.com
Office: 575-393-5611
Cell: 580-339-3608

ATTENTION:

This message is intended only for the use of the individual or entity to which it is addressed. This message, including any attachments, may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are notified that any dissemination, distribution or copying of this communication is strictly prohibited.

If you have received this communication in error, please notify the sender by return email and delete this message and any attachments from your system.

If you no longer wish to receive electronic messages from this sender, please respond and advise accordingly in your return email.

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 69785

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay St, Ste 1600 Houston, TX 77002	OGRID: 34053
	Action Number: 69785
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/3/2022

APPENDIX B

LABORATORY ANALYTICAL REPORTS

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



Analytical Report

Prepared for:

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

Project: Plains-Thomas Station Remediation

Project Number: PP-21255

Location: Eddy County, NM

Lab Order Number: 2A03001



Current Certification

Report Date: 01/06/22

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ Surface	2A03001-01	Soil	12/30/21 08:00	01-03-2022 08:59
AH-1 @ 1'	2A03001-02	Soil	12/30/21 08:05	01-03-2022 08:59
AH-1 @ 2'	2A03001-03	Soil	12/30/21 08:11	01-03-2022 08:59
AH-2 @ Surface	2A03001-07	Soil	12/30/21 08:40	01-03-2022 08:59
AH-2 @ 1'	2A03001-08	Soil	12/30/21 08:42	01-03-2022 08:59
AH-2 @ 2'	2A03001-09	Soil	12/30/21 08:47	01-03-2022 08:59
AH-3 @ Surface	2A03001-13	Soil	12/30/21 09:02	01-03-2022 08:59
AH-3 @ 1'	2A03001-14	Soil	12/30/21 09:12	01-03-2022 08:59
AH-3 @ 2'	2A03001-15	Soil	12/30/21 09:15	01-03-2022 08:59

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-1 @ Surface
2A03001-01 (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	18.5	0.602	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Toluene	237	0.602	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Ethylbenzene	87.5	0.602	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Xylene (p/m)	319	1.20	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Xylene (o)	91.6	0.602	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.9 %		80-120		P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.8 %		80-120		P2A0306	01/03/22 13:28	01/04/22 17:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	147	1.20	mg/kg dry	1	P2A0305	01/03/22 13:20	01/04/22 08:29	EPA 300.0	
% Moisture	17.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	6220	301	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 07:14	TPH 8015M	
>C12-C28	11600	301	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 07:14	TPH 8015M	
>C28-C35	2240	301	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 07:14	TPH 8015M	
Surrogate: 1-Chlorooctane	106 %		70-130		P2A0308	01/03/22 16:00	01/04/22 07:14	TPH 8015M	
Surrogate: o-Terphenyl	121 %		70-130		P2A0308	01/03/22 16:00	01/04/22 07:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	20000	301	mg/kg dry	10	[CALC]	01/03/22 16:00	01/04/22 07:14	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-1 @ 1'
2A03001-02 (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	0.0215	mg/kg dry	20	P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Toluene	0.0839	0.0215	mg/kg dry	20	P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Ethylbenzene	0.117	0.0215	mg/kg dry	20	P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Xylene (p/m)	0.632	0.0430	mg/kg dry	20	P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Xylene (o)	0.172	0.0215	mg/kg dry	20	P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.8 %		80-120		P2A0306	01/03/22 13:28	01/04/22 17:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.1	1.08	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 18:48	EPA 300.0	
% Moisture	7.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	260	134	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 07:37	TPH 8015M	
>C12-C28	700	134	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 07:37	TPH 8015M	
>C28-C35	153	134	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 07:37	TPH 8015M	
Surrogate: 1-Chlorooctane	111 %		70-130		P2A0308	01/03/22 16:00	01/04/22 07:37	TPH 8015M	
Surrogate: o-Terphenyl	110 %		70-130		P2A0308	01/03/22 16:00	01/04/22 07:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1110	134	mg/kg dry	5	[CALC]	01/03/22 16:00	01/04/22 07:37	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-1 @ 2'
2A03001-03 (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	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.3 %		80-120		P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0306	01/03/22 13:28	01/04/22 18:08	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.40	1.04	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 19:07	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 08:42	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 08:42	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 08:42	TPH 8015M	
Surrogate: 1-Chlorooctane	107 %		70-130		P2A0308	01/03/22 16:00	01/04/22 08:42	TPH 8015M	
Surrogate: o-Terphenyl	110 %		70-130		P2A0308	01/03/22 16:00	01/04/22 08:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/03/22 16:00	01/04/22 08:42	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-2 @ Surface
2A03001-07 (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	39.1	0.532	mg/kg dry	500	P2A0306	01/03/22 13:28	01/05/22 11:32	EPA 8021B	
Toluene	558	0.532	mg/kg dry	500	P2A0306	01/03/22 13:28	01/05/22 11:32	EPA 8021B	
Ethylbenzene	186	0.532	mg/kg dry	500	P2A0306	01/03/22 13:28	01/05/22 11:32	EPA 8021B	
Xylene (p/m)	737	1.06	mg/kg dry	500	P2A0306	01/03/22 13:28	01/05/22 11:32	EPA 8021B	
Xylene (o)	188	0.532	mg/kg dry	500	P2A0306	01/03/22 13:28	01/05/22 11:32	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/05/22 11:32</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>88.3 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/05/22 11:32</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	31.8	1.06	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 19:26	EPA 300.0	
% Moisture	6.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	19300	266	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 10:10	TPH 8015M	
>C12-C28	26800	266	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 10:10	TPH 8015M	
>C28-C35	4640	266	mg/kg dry	10	P2A0308	01/03/22 16:00	01/04/22 10:10	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>162 %</i>		<i>70-130</i>		<i>P2A0308</i>	<i>01/03/22 16:00</i>	<i>01/04/22 10:10</i>	<i>TPH 8015M</i>	<i>S-GC</i>
<i>Surrogate: o-Terphenyl</i>	<i>126 %</i>		<i>70-130</i>		<i>P2A0308</i>	<i>01/03/22 16:00</i>	<i>01/04/22 10:10</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	50800	266	mg/kg dry	10	[CALC]	01/03/22 16:00	01/04/22 10:10	calc	

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-2 @ 1'
2A03001-08 (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	0.00151	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Toluene	0.0241	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Ethylbenzene	0.0349	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Xylene (p/m)	0.186	0.00208	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Xylene (o)	0.0628	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	103 %	80-120			P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	104 %	80-120			P2A0306	01/03/22 13:28	01/04/22 19:51	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.8	1.04	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 19:45	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	601	130	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 10:32	TPH 8015M	
>C12-C28	1080	130	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 10:32	TPH 8015M	
>C28-C35	225	130	mg/kg dry	5	P2A0308	01/03/22 16:00	01/04/22 10:32	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %	70-130			P2A0308	01/03/22 16:00	01/04/22 10:32	TPH 8015M	
Surrogate: o-Terphenyl	104 %	70-130			P2A0308	01/03/22 16:00	01/04/22 10:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1900	130	mg/kg dry	5	[CALC]	01/03/22 16:00	01/04/22 10:32	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-2 @ 2'
2A03001-09 (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	0.00899	0.00109	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 20:12	EPA 8021B	
Toluene	0.0165	0.00109	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 20:12	EPA 8021B	
Ethylbenzene	0.00176	0.00109	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 20:12	EPA 8021B	
Xylene (p/m)	0.00537	0.00217	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 20:12	EPA 8021B	
Xylene (o)	0.00186	0.00109	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 20:12	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>99.9 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/04/22 20:12</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.0 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/04/22 20:12</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.28	1.09	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 20:04	EPA 300.0	
% Moisture	18.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 10:54	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 10:54	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2A0308	01/03/22 16:00	01/04/22 10:54	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>102 %</i>		<i>70-130</i>		<i>P2A0308</i>	<i>01/03/22 16:00</i>	<i>01/04/22 10:54</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>106 %</i>		<i>70-130</i>		<i>P2A0308</i>	<i>01/03/22 16:00</i>	<i>01/04/22 10:54</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/03/22 16:00	01/04/22 10:54	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-3 @ Surface
2A03001-13 (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	8.67	0.515	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 22:15	EPA 8021B	
Toluene	120	0.515	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 22:15	EPA 8021B	
Ethylbenzene	46.1	0.515	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 22:15	EPA 8021B	
Xylene (p/m)	189	1.03	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 22:15	EPA 8021B	
Xylene (o)	51.8	0.515	mg/kg dry	500	P2A0306	01/03/22 13:28	01/04/22 22:15	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>84.5 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/04/22 22:15</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.1 %</i>		<i>80-120</i>		<i>P2A0306</i>	<i>01/03/22 13:28</i>	<i>01/04/22 22:15</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	799	1.03	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 20:23	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	9230	258	mg/kg dry	10	P2A0402	01/04/22 14:30	01/04/22 17:43	TPH 8015M	
>C12-C28	18900	258	mg/kg dry	10	P2A0402	01/04/22 14:30	01/04/22 17:43	TPH 8015M	
>C28-C35	3050	258	mg/kg dry	10	P2A0402	01/04/22 14:30	01/04/22 17:43	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>112 %</i>		<i>70-130</i>		<i>P2A0402</i>	<i>01/04/22 14:30</i>	<i>01/04/22 17:43</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>110 %</i>		<i>70-130</i>		<i>P2A0402</i>	<i>01/04/22 14:30</i>	<i>01/04/22 17:43</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	31200	258	mg/kg dry	10	[CALC]	01/04/22 14:30	01/04/22 17:43	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-3 @ 1'
2A03001-14 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Toluene	0.00144	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Xylene (p/m)	0.00264	0.00208	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.2 %		80-120		P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.3 %		80-120		P2A0306	01/03/22 13:28	01/04/22 22:35	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.6	1.04	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 20:42	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:06	TPH 8015M	
>C12-C28	107	26.0	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:06	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:06	TPH 8015M	
Surrogate: 1-Chlorooctane	86.7 %		70-130		P2A0402	01/04/22 14:30	01/04/22 18:06	TPH 8015M	
Surrogate: o-Terphenyl	87.6 %		70-130		P2A0402	01/04/22 14:30	01/04/22 18:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	107	26.0	mg/kg dry	1	[CALC]	01/04/22 14:30	01/04/22 18:06	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

AH-3 @ 2'
2A03001-15 (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	0.00106	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.6 %		80-120		P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P2A0306	01/03/22 13:28	01/04/22 22:56	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.9	1.06	mg/kg dry	1	P2A0309	01/03/22 15:34	01/03/22 21:01	EPA 300.0	
% Moisture	6.0	0.1	%	1	P2A0401	01/04/22 10:47	01/04/22 10:57	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:29	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:29	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2A0402	01/04/22 14:30	01/04/22 18:29	TPH 8015M	
Surrogate: 1-Chlorooctane	87.3 %		70-130		P2A0402	01/04/22 14:30	01/04/22 18:29	TPH 8015M	
Surrogate: o-Terphenyl	88.8 %		70-130		P2A0402	01/04/22 14:30	01/04/22 18:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/04/22 14:30	01/04/22 18:29	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0306 - * DEFAULT PREP *****

Blank (P2A0306-BLK1)

Prepared: 01/03/22 Analyzed: 01/04/22

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	0.103		"	0.102		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.0997		"	0.102		97.3	80-120			

LCS (P2A0306-BS1)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.0878	0.00100	mg/kg wet	0.0969		90.6	70-130			
Toluene	0.0865	0.00100	"	0.0969		89.3	70-130			
Ethylbenzene	0.0933	0.00100	"	0.0969		96.3	70-130			
Xylene (p/m)	0.183	0.00200	"	0.194		94.6	70-130			
Xylene (o)	0.0824	0.00100	"	0.0969		85.0	70-130			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.116		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.116		101	80-120			

LCS Dup (P2A0306-BSD1)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.0681	0.00100	mg/kg wet	0.0842		80.8	70-130	11.4	20	
Toluene	0.0674	0.00100	"	0.0842		80.1	70-130	10.9	20	
Ethylbenzene	0.0712	0.00100	"	0.0842		84.6	70-130	12.9	20	
Xylene (p/m)	0.140	0.00200	"	0.168		83.3	70-130	12.7	20	
Xylene (o)	0.0677	0.00100	"	0.0842		80.4	70-130	5.57	20	
Surrogate: 1,4-Difluorobenzene	0.106		"	0.101		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.101		107	80-120			

Calibration Blank (P2A0306-CCB1)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.00		mg/kg wet							
Toluene	0.200		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.300		"							
Xylene (o)	0.130		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.3	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0306 - * DEFAULT PREP *****

Calibration Blank (P2A0306-CCB2)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.00		mg/kg wet							
Toluene	0.140		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.320		"							
Xylene (o)	0.220		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

Calibration Blank (P2A0306-CCB3)

Prepared: 01/03/22 Analyzed: 01/05/22

Benzene	0.00		mg/kg wet							
Toluene	0.150		"							
Ethylbenzene	0.130		"							
Xylene (p/m)	0.410		"							
Xylene (o)	0.220		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.3	80-120			

Calibration Check (P2A0306-CCV1)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.0938	0.00100	mg/kg wet	0.100		93.8	80-120			
Toluene	0.0919	0.00100	"	0.100		91.9	80-120			
Ethylbenzene	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.0884	0.00100	"	0.100		88.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Check (P2A0306-CCV2)

Prepared: 01/03/22 Analyzed: 01/04/22

Benzene	0.0975	0.00100	mg/kg wet	0.100		97.5	80-120			
Toluene	0.0956	0.00100	"	0.100		95.6	80-120			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0920	0.00100	"	0.100		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0306 - * DEFAULT PREP *****

Calibration Check (P2A0306-CCV3)

Prepared: 01/03/22 Analyzed: 01/05/22

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0989	0.00100	"	0.100		98.9	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.3	75-125			

Matrix Spike (P2A0306-MS1)

Source: 2A03001-03

Prepared: 01/03/22 Analyzed: 01/05/22

QM-07

Benzene	0.0818	0.00104	mg/kg dry	0.104	ND	78.8	80-120			
Toluene	0.0773	0.00104	"	0.104	ND	74.5	80-120			
Ethylbenzene	0.0461	0.00104	"	0.104	ND	44.5	80-120			
Xylene (p/m)	0.171	0.00208	"	0.208	0.00117	82.0	80-120			
Xylene (o)	0.0831	0.00104	"	0.104	0.00101	79.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.115		"	0.125		92.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.125		99.2	80-120			

Matrix Spike Dup (P2A0306-MSD1)

Source: 2A03001-03

Prepared: 01/03/22 Analyzed: 01/05/22

Benzene	0.0861	0.00104	mg/kg dry	0.105	ND	82.0	80-120	3.94	20	
Toluene	0.0836	0.00104	"	0.105	ND	79.6	80-120	6.65	20	QM-07
Ethylbenzene	0.0484	0.00104	"	0.105	ND	46.1	80-120	3.51	20	QM-07
Xylene (p/m)	0.183	0.00208	"	0.210	0.00117	86.7	80-120	5.62	20	
Xylene (o)	0.0876	0.00104	"	0.105	0.00101	82.5	80-120	4.07	20	
Surrogate: 4-Bromofluorobenzene	0.117		"	0.126		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.126		101	80-120			

Permian Basin Environmental Lab, L.P.

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Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0305 - * DEFAULT PREP *****

Blank (P2A0305-BLK1)

Prepared & Analyzed: 01/03/22

Chloride	ND	1.00	mg/kg wet
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LCS (P2A0305-BS1)

Prepared & Analyzed: 01/03/22

Chloride	38.9		mg/kg	40.0	97.3	90-110
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LCS Dup (P2A0305-BSD1)

Prepared & Analyzed: 01/03/22

Chloride	39.1		mg/kg	40.0	97.8	90-110	0.541	10
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Calibration Blank (P2A0305-CCB1)

Prepared & Analyzed: 01/03/22

Chloride	0.116		mg/kg wet
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Calibration Blank (P2A0305-CCB2)

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	0.00		mg/kg wet
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Calibration Check (P2A0305-CCV1)

Prepared & Analyzed: 01/03/22

Chloride	18.1		mg/kg	20.0	90.4	90-110
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Calibration Check (P2A0305-CCV2)

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	18.4		mg/kg	20.0	91.9	90-110
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Calibration Check (P2A0305-CCV3)

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	18.4		mg/kg	20.0	91.8	90-110
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Matrix Spike (P2A0305-MS1)

Source: 1L30011-12

Prepared & Analyzed: 01/03/22

Chloride	11500	68.5	mg/kg dry	3420	8780	78.4	80-120	QM-05
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Matrix Spike (P2A0305-MS2)

Source: 1L30011-22

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	16900	69.4	mg/kg dry	3470	13400	99.0	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0305 - *** DEFAULT PREP ***										
Matrix Spike Dup (P2A0305-MSD1)		Source: 1L30011-12		Prepared & Analyzed: 01/03/22						
Chloride	11900	68.5	mg/kg dry	3420	8780	90.6	80-120	3.59	20	
Matrix Spike Dup (P2A0305-MSD2)		Source: 1L30011-22		Prepared: 01/03/22 Analyzed: 01/04/22						
Chloride	16900	69.4	mg/kg dry	3470	13400	101	80-120	0.456	20	
Batch P2A0309 - *** DEFAULT PREP ***										
Blank (P2A0309-BLK1)				Prepared & Analyzed: 01/03/22						
Chloride	ND	1.00	mg/kg wet							
LCS (P2A0309-BS1)				Prepared & Analyzed: 01/03/22						
Chloride	40.9		mg/kg	40.0		102	90-110			
LCS Dup (P2A0309-BSD1)				Prepared & Analyzed: 01/03/22						
Chloride	40.9		mg/kg	40.0		102	90-110	0.0294	10	
Calibration Blank (P2A0309-CCB1)				Prepared & Analyzed: 01/03/22						
Chloride	0.0610		mg/kg wet							
Calibration Check (P2A0309-CCV1)				Prepared & Analyzed: 01/03/22						
Chloride	20.2		mg/kg	20.0		101	90-110			
Calibration Check (P2A0309-CCV2)				Prepared & Analyzed: 01/03/22						
Chloride	20.5		mg/kg	20.0		102	90-110			
Matrix Spike (P2A0309-MS1)		Source: 2A03004-01		Prepared & Analyzed: 01/03/22						
Chloride	889	1.23	mg/kg dry	309	286	196	80-120	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0309 - * DEFAULT PREP *****

Matrix Spike Dup (P2A0309-MSD1)	Source: 2A03004-01			Prepared & Analyzed: 01/03/22						
Chloride	822	1.23	mg/kg dry	309	286	174	80-120	7.84	20	QM-05

Batch P2A0401 - * DEFAULT PREP *****

Blank (P2A0401-BLK1)	Prepared & Analyzed: 01/04/22									
% Moisture	ND	0.1	%							
Duplicate (P2A0401-DUP1)	Source: 1L30011-03			Prepared & Analyzed: 01/04/22						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P2A0401-DUP2)	Source: 1L30011-13			Prepared & Analyzed: 01/04/22						
% Moisture	26.0	0.1	%		26.0			0.00	20	
Duplicate (P2A0401-DUP3)	Source: 1L30012-01			Prepared & Analyzed: 01/04/22						
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P2A0401-DUP4)	Source: 2A03001-08			Prepared & Analyzed: 01/04/22						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2A0401-DUP5)	Source: 2A03003-03			Prepared & Analyzed: 01/04/22						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P2A0401-DUP6)	Source: 2A03005-07			Prepared & Analyzed: 01/04/22						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0308 - TX 1005

Blank (P2A0308-BLK1)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.8		"	100		89.8	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.4	70-130			

LCS (P2A0308-BS1)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	1070	25.0	mg/kg wet	1000		107	75-125			
>C12-C28	970	25.0	"	1000		97.0	75-125			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	52.4		"	50.0		105	70-130			

LCS Dup (P2A0308-BSD1)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	1.90	20	
>C12-C28	952	25.0	"	1000		95.2	75-125	1.92	20	
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	52.1		"	50.0		104	70-130			

Calibration Check (P2A0308-CCV1)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	575	25.0	mg/kg wet	500		115	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			

Calibration Check (P2A0308-CCV2)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	545	25.0	mg/kg wet	500		109	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0308 - TX 1005

Calibration Check (P2A0308-CCV3)

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	576	25.0	mg/kg wet	500		115	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Duplicate (P2A0308-DUP1)

Source: 2A03001-12

Prepared: 01/03/22 Analyzed: 01/04/22

C6-C12	20.8	26.0	mg/kg dry		22.1			6.08	20	
>C12-C28	ND	26.0	"		ND				20	
Surrogate: 1-Chlorooctane	120		"	104		115	70-130			
Surrogate: o-Terphenyl	62.3		"	52.1		120	70-130			

Batch P2A0402 - * DEFAULT PREP *****

Blank (P2A0402-BLK1)

Prepared & Analyzed: 01/04/22

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	86.6		"	100		86.6	70-130			
Surrogate: o-Terphenyl	44.0		"	50.0		88.1	70-130			

LCS (P2A0402-BS1)

Prepared & Analyzed: 01/04/22

C6-C12	976	25.0	mg/kg wet	1000		97.6	75-125			
>C12-C28	921	25.0	"	1000		92.1	75-125			
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		98.0	70-130			

LCS Dup (P2A0402-BSD1)

Prepared & Analyzed: 01/04/22

C6-C12	963	25.0	mg/kg wet	1000		96.3	75-125	1.32	20	
>C12-C28	901	25.0	"	1000		90.1	75-125	2.15	20	
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0402 - * DEFAULT PREP *****

Calibration Check (P2A0402-CCV1)

Prepared & Analyzed: 01/04/22

C6-C12	574	25.0	mg/kg wet	500		115	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Calibration Check (P2A0402-CCV2)

Prepared & Analyzed: 01/04/22

C6-C12	572	25.0	mg/kg wet	500		114	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			

Calibration Check (P2A0402-CCV3)

Prepared: 01/04/22 Analyzed: 01/05/22

C6-C12	551	25.0	mg/kg wet	500		110	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Duplicate (P2A0402-DUP1)

Source: 2A03005-09

Prepared: 01/04/22 Analyzed: 01/05/22

C6-C12	188	272	mg/kg dry		ND			166	20	
>C12-C28	7870	272	"		799			163	20	
Surrogate: 1-Chlorooctane	94.6		"	109		87.0	70-130			
Surrogate: o-Terphenyl	56.8		"	54.3		105	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 may be biased low in the nC6-C12 TPH Range

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:

1/6/2022

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Project Manager:

Company Name:

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

(lab use only)

ORDER #: 2A03001

432 653 4203

Fax No:

e-mail: Elizabeth.Loff, Steve, Kanyan & Amber Groves w/ Plungis

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Loc: Eddy County, NM

PO #: SKS# 2021-113

Project #: WP-21255

Project Name:

Plans Thomas Sitkoff
Kennebec

Phone: 432-686-7235

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W.

1062

Page 23 of 25

ORDER #:		2A03001		Analyze For:	
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 C021B 5030 or BTEX 8260		TPH 8015 M		TCLP	
TOTAL:		RUSH TAT (Pre-Schedule) 24, 48, 72 h		Standard TAT	
1	HH-10 Surface	0	12/30/21	0800	X
2	HH-1 @ 1'	1'		0805	X
3	HH-1 @ 2'	2'		0811	X
4	HH-1 @ 3'	3'		0820	X
5	HH-1 @ 4'	4'		0822	X
6	HH-1 @ 5'	5'		0827	X
7	HH-2 @ Surface	0		0840	X
8	HH-2 @ 1'	1'		0842	X
9	HH-2 @ 2'	2'		0847	X
10	HH-2 @ 3'	3'		0851	X



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes	Notes
☒	Chain of custody documented?
☒	Chain of custody signed/dated/time when relinquished and received?
☒	Samples date/time received on COC for all samples?
☒	Samples name present on COC?
☒	Original custody signed with seal intact?
☒	Sample containers intact?
☒	Custody seal intact and sample bottles?
☒	Samples in proper container/bottle?
☒	State and sample volume (as indicated on COC)?
☒	All samples received within holding time?
☒	Samples received within appropriate time?
☒	Analysis requested for all samples submitted?
☒	Shipping temperature/level at hold conditions?
☒	Custody seals intact on shipping container/cooler?

Log In Notes: 402 hr 2A03001

PBEL_SAMPLE_CHECKLIST_2021_1

Page 1 of 2



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

[illegible]

Resolution:

Client Contacted _____

Name: _____

Date/Time: _____

NC Initiated by: _____

Approved by: _____

PBEL_SAMPLE_CHECKLIST_2021_1

Page 2 of 2

**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-Thomas Station Remediation

Project Number: PP-21255

Location: Eddy County, NM

Lab Order Number: 2A06002



Current Certification

Report Date: 01/11/22

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 8"	2A06002-01	Soil	01/05/22 09:00	01-06-2022 09:54
BH-2 @ 2'	2A06002-02	Soil	01/05/22 09:30	01-06-2022 09:54
BH-3 @ 2'	2A06002-03	Soil	01/05/22 10:00	01-06-2022 09:54
BH-4 @ 2'	2A06002-04	Soil	01/05/22 10:30	01-06-2022 09:54
BH-5 @ 2'	2A06002-05	Soil	01/05/22 11:00	01-06-2022 09:54
BH-6 @ 2'	2A06002-06	Soil	01/05/22 11:30	01-06-2022 09:54
BH-7 @ 8"	2A06002-07	Soil	01/05/22 12:00	01-06-2022 09:54
SW-1 @ 1'	2A06002-08	Soil	01/05/22 13:05	01-06-2022 09:54
SW-2 @ 1'	2A06002-09	Soil	01/05/22 13:30	01-06-2022 09:54
WW-1 @ 4"	2A06002-10	Soil	01/05/22 13:35	01-06-2022 09:54
EW-1 @ 1'	2A06002-11	Soil	01/05/22 12:05	01-06-2022 09:54
NW-1 @ 1'	2A06002-12	Soil	01/05/22 12:15	01-06-2022 09:54
NW-2 @ 1'	2A06002-13	Soil	01/05/22 13:00	01-06-2022 09:54
NW-3 @ 1'	2A06002-14	Soil	01/05/22 13:15	01-06-2022 09:54

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-1 @ 8"
2A06002-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.6 %		80-120		P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0607	01/06/22 14:57	01/06/22 18:28	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.73	1.03	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 02:26	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/10/22 19:42	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/10/22 19:42	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/10/22 19:42	TPH 8015M	
Surrogate: 1-Chlorooctane	104 %		70-130		P2A0704	01/07/22 08:30	01/10/22 19:42	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P2A0704	01/07/22 08:30	01/10/22 19:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/07/22 08:30	01/10/22 19:42	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-2 @ 2'
2A06002-02 (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	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.8 %		80-120		P2A0607	01/06/22 14:57	01/06/22 18:49	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.31	1.03	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 02:41	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:12	TPH 8015M	
>C12-C28	27.0	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:12	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:12	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P2A0704	01/07/22 08:30	01/08/22 22:12	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P2A0704	01/07/22 08:30	01/08/22 22:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27.0	25.8	mg/kg dry	1	[CALC]	01/07/22 08:30	01/08/22 22:12	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-3 @ 2'
2A06002-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.3 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:10	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.67	1.03	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 03:27	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:37	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:37	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 22:37	TPH 8015M	
Surrogate: 1-Chlorooctane	98.9 %		70-130		P2A0704	01/07/22 08:30	01/08/22 22:37	TPH 8015M	
Surrogate: o-Terphenyl	98.4 %		70-130		P2A0704	01/07/22 08:30	01/08/22 22:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/07/22 08:30	01/08/22 22:37	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-4 @ 2'
2A06002-04 (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	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.4 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.3	1.02	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 04:13	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:01	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:01	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:01	TPH 8015M	
Surrogate: 1-Chlorooctane	105 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:01	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:01	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/07/22 08:30	01/08/22 23:01	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-5 @ 2'
2A06002-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.8 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P2A0607	01/06/22 14:57	01/06/22 19:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.4	1.02	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 04:28	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:26	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:26	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:26	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:26	TPH 8015M	
Surrogate: o-Terphenyl	99.5 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/07/22 08:30	01/08/22 23:26	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-6 @ 2'
2A06002-06 (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	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Toluene	0.00273	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.1 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:13	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.5	1.03	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 04:44	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:50	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:50	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2A0704	01/07/22 08:30	01/08/22 23:50	TPH 8015M	
Surrogate: 1-Chlorooctane	96.1 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:50	TPH 8015M	
Surrogate: o-Terphenyl	94.3 %		70-130		P2A0704	01/07/22 08:30	01/08/22 23:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/07/22 08:30	01/08/22 23:50	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

BH-7@ 8"
2A06002-07 (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	0.00106	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Toluene	0.00137	0.00106	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Xylene (p/m)	0.00573	0.00213	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Xylene (o)	0.00121	0.00106	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	100 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:35	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	67.9	1.06	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 04:59	EPA 300.0	
% Moisture	6.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 15:45	TPH 8015M	
>C12-C28	29.0	26.6	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 15:45	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 15:45	TPH 8015M	
Surrogate: 1-Chlorooctane	94.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 15:45	TPH 8015M	
Surrogate: o-Terphenyl	92.1 %		70-130		P2A0708	01/07/22 14:58	01/09/22 15:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.0	26.6	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 15:45	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

SW-1 @ 1'
2A06002-08 (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	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.1 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P2A0607	01/06/22 14:57	01/06/22 20:56	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19.4	1.04	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 05:14	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:09	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:09	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:09	TPH 8015M	
Surrogate: 1-Chlorooctane	97.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:09	TPH 8015M	
Surrogate: o-Terphenyl	94.4 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 16:09	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

SW-2 @ 1'
2A06002-09 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %		80-120		P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	96.1 %		80-120		P2A0607	01/06/22 14:57	01/06/22 21:17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.51	1.04	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 05:30	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:34	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:34	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:34	TPH 8015M	
Surrogate: 1-Chlorooctane	99.4 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:34	TPH 8015M	
Surrogate: o-Terphenyl	98.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:34	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 16:34	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

WW-1 @ 4"
2A06002-10 (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	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Xylene (p/m)	0.00515	0.00208	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Xylene (o)	0.00109	0.00104	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.5 %		80-120		P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.5 %		80-120		P2A0607	01/06/22 14:57	01/06/22 22:20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	79.9	1.04	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 05:45	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:58	TPH 8015M	
>C12-C28	26.2	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:58	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 16:58	TPH 8015M	
Surrogate: 1-Chlorooctane	96.7 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:58	TPH 8015M	
Surrogate: o-Terphenyl	94.5 %		70-130		P2A0708	01/07/22 14:58	01/09/22 16:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.2	26.0	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 16:58	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

EW-1 @ 1'
2A06002-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.6 %		80-120		P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.9 %		80-120		P2A0607	01/06/22 14:57	01/06/22 22:41	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.88	1.02	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 06:01	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:23	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:23	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:23	TPH 8015M	
Surrogate: 1-Chlorooctane	95.5 %		70-130		P2A0708	01/07/22 14:58	01/09/22 17:23	TPH 8015M	
Surrogate: o-Terphenyl	96.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 17:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 17:23	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

NW-1 @ 1'
2A06002-12 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.2 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.4 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.17	1.02	mg/kg dry	1	P2A0702	01/07/22 13:01	01/08/22 06:16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:47	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:47	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 17:47	TPH 8015M	
Surrogate: 1-Chlorooctane	96.9 %		70-130		P2A0708	01/07/22 14:58	01/09/22 17:47	TPH 8015M	
Surrogate: o-Terphenyl	96.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 17:47	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 17:47	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

NW-2 @ 1'
2A06002-13 (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	0.00101	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	94.6 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.4 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.1	1.01	mg/kg dry	1	P2A0706	01/07/22 14:28	01/07/22 18:48	EPA 300.0	
% Moisture	1.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:12	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:12	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:12	TPH 8015M	
Surrogate: 1-Chlorooctane	95.2 %		70-130		P2A0708	01/07/22 14:58	01/09/22 18:12	TPH 8015M	
Surrogate: o-Terphenyl	95.0 %		70-130		P2A0708	01/07/22 14:58	01/09/22 18:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 18:12	calc	

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

NW-3 @ 1'
2A06002-14 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Toluene	0.00141	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	98.6 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	93.6 %		80-120		P2A0607	01/06/22 14:57	01/06/22 23:44	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.75	1.03	mg/kg dry	1	P2A0706	01/07/22 14:28	01/07/22 19:34	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2A0705	01/07/22 13:55	01/07/22 14:02	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:36	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:36	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2A0708	01/07/22 14:58	01/09/22 18:36	TPH 8015M	
Surrogate: 1-Chlorooctane	98.7 %		70-130		P2A0708	01/07/22 14:58	01/09/22 18:36	TPH 8015M	
Surrogate: o-Terphenyl	97.5 %		70-130		P2A0708	01/07/22 14:58	01/09/22 18:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/07/22 14:58	01/09/22 18:36	calc	

Permian Basin Environmental Lab, L.P.

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

Dean	Project: Plains-Thomas Station Remediation
12600 W County Rd 91	Project Number: PP-21255
Midland TX, 79707	Project Manager: Jeff Kindley

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 P2A0607 - * DEFAULT PREP *****

Blank (P2A0607-BLK1)

Prepared & Analyzed: 01/06/22

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	0.106		"	0.120		88.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	80-120			

LCS (P2A0607-BS1)

Prepared & Analyzed: 01/06/22

Benzene	0.0947	0.00100	mg/kg wet	0.100		94.7	70-130			
Toluene	0.0928	0.00100	"	0.100		92.8	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.198	0.00200	"	0.200		98.8	70-130			
Xylene (o)	0.0869	0.00100	"	0.100		86.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	80-120			

LCS Dup (P2A0607-BSD1)

Prepared & Analyzed: 01/06/22

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	70-130	3.83	20	
Toluene	0.0884	0.00100	"	0.100		88.4	70-130	4.86	20	
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	70-130	4.45	20	
Xylene (p/m)	0.188	0.00200	"	0.200		94.1	70-130	4.78	20	
Xylene (o)	0.0827	0.00100	"	0.100		82.7	70-130	5.04	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	80-120			

Calibration Blank (P2A0607-CCB1)

Prepared & Analyzed: 01/06/22

Benzene	0.300		mg/kg wet							
Toluene	0.350		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.320		"							
Xylene (o)	0.210		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0607 - * DEFAULT PREP *****

Calibration Blank (P2A0607-CCB2)

Prepared & Analyzed: 01/06/22

Benzene	0.200		mg/kg wet							
Toluene	0.380		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.300		"							
Xylene (o)	0.200		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		92.9	80-120			

Calibration Check (P2A0607-CCV1)

Prepared & Analyzed: 01/06/22

Benzene	0.0874	0.00100	mg/kg wet	0.100		87.4	80-120			
Toluene	0.0864	0.00100	"	0.100		86.4	80-120			
Ethylbenzene	0.0868	0.00100	"	0.100		86.8	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.7	80-120			
Xylene (o)	0.0814	0.00100	"	0.100		81.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			

Calibration Check (P2A0607-CCV2)

Prepared & Analyzed: 01/06/22

Benzene	0.0965	0.00100	mg/kg wet	0.100		96.5	80-120			
Toluene	0.0940	0.00100	"	0.100		94.0	80-120			
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.4	75-125			

Calibration Check (P2A0607-CCV3)

Prepared: 01/06/22 Analyzed: 01/07/22

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0967	0.00100	"	0.100		96.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	75-125			

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0607 - * DEFAULT PREP *****

Matrix Spike (P2A0607-MS1)

Source: 2A06002-02

Prepared: 01/06/22 Analyzed: 01/07/22

Benzene	0.0923	0.00103	mg/kg dry	0.103	ND	89.6	80-120			
Toluene	0.0725	0.00103	"	0.103	ND	70.3	80-120			
Ethylbenzene	0.0428	0.00103	"	0.103	ND	41.5	80-120			
Xylene (p/m)	0.188	0.00206	"	0.206	ND	91.3	80-120			
Xylene (o)	0.0892	0.00103	"	0.103	ND	86.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.124		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.124		96.0	80-120			

Matrix Spike Dup (P2A0607-MSD1)

Source: 2A06002-02

Prepared: 01/06/22 Analyzed: 01/07/22

Benzene	0.0890	0.00103	mg/kg dry	0.103	ND	86.3	80-120	3.65	20	
Toluene	0.0678	0.00103	"	0.103	ND	65.8	80-120	6.67	20	
Ethylbenzene	0.0371	0.00103	"	0.103	ND	36.0	80-120	14.2	20	
Xylene (p/m)	0.180	0.00206	"	0.206	ND	87.4	80-120	4.34	20	
Xylene (o)	0.0850	0.00103	"	0.103	ND	82.4	80-120	4.88	20	
Surrogate: 1,4-Difluorobenzene	0.125		"	0.124		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.124		99.3	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0702 - * DEFAULT PREP *****

Blank (P2A0702-BLK1)

Prepared & Analyzed: 01/07/22

Chloride	ND	1.00	mg/kg wet
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LCS (P2A0702-BS1)

Prepared & Analyzed: 01/07/22

Chloride	38.9		mg/kg	40.0	97.3	90-110
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LCS Dup (P2A0702-BSD1)

Prepared & Analyzed: 01/07/22

Chloride	38.7		mg/kg	40.0	96.8	90-110	0.564	10
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Calibration Blank (P2A0702-CCB1)

Prepared & Analyzed: 01/07/22

Chloride	0.142		mg/kg wet
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Calibration Blank (P2A0702-CCB2)

Prepared: 01/07/22 Analyzed: 01/08/22

Chloride	0.00		mg/kg wet
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Calibration Check (P2A0702-CCV1)

Prepared & Analyzed: 01/07/22

Chloride	19.4		mg/kg	20.0	96.8	90-110
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Calibration Check (P2A0702-CCV2)

Prepared: 01/07/22 Analyzed: 01/08/22

Chloride	18.9		mg/kg	20.0	94.4	90-110
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Calibration Check (P2A0702-CCV3)

Prepared: 01/07/22 Analyzed: 01/08/22

Chloride	19.4		mg/kg	20.0	96.8	90-110
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Matrix Spike (P2A0702-MS1)

Source: 2A05016-06

Prepared: 01/07/22 Analyzed: 01/08/22

Chloride	20200	57.5	mg/kg dry	2870	16300	138	80-120	QM-05
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Matrix Spike (P2A0702-MS2)

Source: 2A06002-03

Prepared: 01/07/22 Analyzed: 01/08/22

Chloride	238	1.03	mg/kg dry	258	7.67	89.5	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0702 - * DEFAULT PREP *****

Matrix Spike Dup (P2A0702-MSD1)	Source: 2A05016-06			Prepared: 01/07/22 Analyzed: 01/08/22						
Chloride	20800	57.5	mg/kg dry	2870	16300	157	80-120	2.65	20	QM-05
Matrix Spike Dup (P2A0702-MSD2)	Source: 2A06002-03			Prepared: 01/07/22 Analyzed: 01/08/22						
Chloride	240	1.03	mg/kg dry	258	7.67	90.0	80-120	0.608	20	

Batch P2A0705 - * DEFAULT PREP *****

Blank (P2A0705-BLK1)				Prepared & Analyzed: 01/07/22			
% Moisture	ND	0.1	%				
Blank (P2A0705-BLK2)				Prepared & Analyzed: 01/07/22			
% Moisture	ND	0.1	%				
Duplicate (P2A0705-DUP1)		Source: 2A05008-10		Prepared & Analyzed: 01/07/22			
% Moisture	10.0	0.1	%	10.0	0.00	20	
Duplicate (P2A0705-DUP2)		Source: 2A05013-04		Prepared & Analyzed: 01/07/22			
% Moisture	2.0	0.1	%	1.0	66.7	20	R3
Duplicate (P2A0705-DUP3)		Source: 2A05015-03		Prepared & Analyzed: 01/07/22			
% Moisture	9.0	0.1	%	9.0	0.00	20	
Duplicate (P2A0705-DUP4)		Source: 2A05016-08		Prepared & Analyzed: 01/07/22			
% Moisture	14.0	0.1	%	14.0	0.00	20	
Duplicate (P2A0705-DUP5)		Source: 2A06002-07		Prepared & Analyzed: 01/07/22			
% 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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0705 - * DEFAULT PREP *****

Duplicate (P2A0705-DUP6)		Source: 2A06003-02		Prepared & Analyzed: 01/07/22						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P2A0705-DUP7)		Source: 2A06003-17		Prepared & Analyzed: 01/07/22						
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P2A0705-DUP8)		Source: 2A06004-02		Prepared & Analyzed: 01/07/22						
% Moisture	13.0	0.1	%		15.0			14.3	20	
Duplicate (P2A0705-DUP9)		Source: 2A06011-04		Prepared & Analyzed: 01/07/22						
% Moisture	6.0	0.1	%		5.0			18.2	20	

Batch P2A0706 - * DEFAULT PREP *****

Blank (P2A0706-BLK1)		Prepared & Analyzed: 01/07/22								
Chloride	ND	1.00	mg/kg wet							
LCS (P2A0706-BS1)		Prepared & Analyzed: 01/07/22								
Chloride	40.5		mg/kg	40.0	101	90-110				
LCS Dup (P2A0706-BSD1)		Prepared & Analyzed: 01/07/22								
Chloride	41.8		mg/kg	40.0	105	90-110	3.22	10		
Calibration Blank (P2A0706-CCB1)		Prepared & Analyzed: 01/07/22								
Chloride	0.139		mg/kg wet							
Calibration Blank (P2A0706-CCB2)		Prepared & Analyzed: 01/07/22								
Chloride	0.116		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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0706 - *** DEFAULT PREP ***										
Calibration Check (P2A0706-CCV1)				Prepared & Analyzed: 01/07/22						
Chloride	19.0		mg/kg	20.0		94.9	90-110			
Calibration Check (P2A0706-CCV2)				Prepared & Analyzed: 01/07/22						
Chloride	19.4		mg/kg	20.0		97.0	90-110			
Calibration Check (P2A0706-CCV3)				Prepared & Analyzed: 01/07/22						
Chloride	19.4		mg/kg	20.0		96.8	90-110			
Matrix Spike (P2A0706-MS1)		Source: 2A07001-01		Prepared & Analyzed: 01/07/22						
Chloride	568	1.02	mg/kg dry	255	329	93.5	80-120			
Matrix Spike (P2A0706-MS2)		Source: 2A06002-13		Prepared & Analyzed: 01/07/22						
Chloride	235	1.01	mg/kg dry	253	15.1	87.2	80-120			
Matrix Spike Dup (P2A0706-MSD1)		Source: 2A07001-01		Prepared & Analyzed: 01/07/22						
Chloride	566	1.02	mg/kg dry	255	329	92.9	80-120	0.308	20	
Matrix Spike Dup (P2A0706-MSD2)		Source: 2A06002-13		Prepared & Analyzed: 01/07/22						
Chloride	228	1.01	mg/kg dry	253	15.1	84.5	80-120	2.98	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0704 - * DEFAULT PREP *****

Blank (P2A0704-BLK1)

Prepared: 01/07/22 Analyzed: 01/08/22

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.1		"	100		95.1	70-130			
Surrogate: o-Terphenyl	48.5		"	50.0		97.0	70-130			

LCS (P2A0704-BS1)

Prepared: 01/07/22 Analyzed: 01/08/22

C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125			
>C12-C28	905	25.0	"	1000		90.5	75-125			
Surrogate: 1-Chlorooctane	96.8		"	100		96.8	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

LCS Dup (P2A0704-BSD1)

Prepared: 01/07/22 Analyzed: 01/08/22

C6-C12	971	25.0	mg/kg wet	1000		97.1	75-125	2.34	20	
>C12-C28	886	25.0	"	1000		88.6	75-125	2.14	20	
Surrogate: 1-Chlorooctane	95.3		"	100		95.3	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

Calibration Check (P2A0704-CCV1)

Prepared: 01/07/22 Analyzed: 01/08/22

C6-C12	498	25.0	mg/kg wet	500		99.5	85-115			
>C12-C28	484	25.0	"	500		96.7	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.2	70-130			

Calibration Check (P2A0704-CCV2)

Prepared: 01/07/22 Analyzed: 01/08/22

C6-C12	506	25.0	mg/kg wet	500		101	85-115			
>C12-C28	455	25.0	"	500		91.0	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	50.1		"	50.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0704 - * DEFAULT PREP *****

Calibration Check (P2A0704-CCV3)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	488	25.0	"	500		97.7	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Matrix Spike (P2A0704-MS1)

Source: 2A06002-06

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	890	25.8	mg/kg dry	1030	17.4	84.6	75-125			
>C12-C28	844	25.8	"	1030	17.3	80.2	75-125			
Surrogate: 1-Chlorooctane	129		"	103		125	70-130			
Surrogate: o-Terphenyl	49.3		"	51.5		95.7	70-130			

Matrix Spike Dup (P2A0704-MSD1)

Source: 2A06002-06

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	941	25.8	mg/kg dry	1030	17.4	89.6	75-125	5.65	20	
>C12-C28	885	25.8	"	1030	17.3	84.1	75-125	4.84	20	
Surrogate: 1-Chlorooctane	131		"	103		127	70-130			
Surrogate: o-Terphenyl	50.9		"	51.5		98.8	70-130			

Batch P2A0708 - * DEFAULT PREP *****

Blank (P2A0708-BLK1)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.9		"	100		83.9	70-130			
Surrogate: o-Terphenyl	43.2		"	50.0		86.3	70-130			

LCS (P2A0708-BS1)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	976	25.0	mg/kg wet	1000		97.6	75-125			
>C12-C28	879	25.0	"	1000		87.9	75-125			
Surrogate: 1-Chlorooctane	93.5		"	100		93.5	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0708 - * DEFAULT PREP *****

LCS Dup (P2A0708-BSD1)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	925	25.0	mg/kg wet	1000		92.5	75-125	5.43	20	
>C12-C28	860	25.0	"	1000		86.0	75-125	2.16	20	
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	48.7		"	50.0		97.3	70-130			

Calibration Check (P2A0708-CCV1)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	476	25.0	mg/kg wet	500		95.3	85-115			
>C12-C28	448	25.0	"	500		89.7	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.7	70-130			

Calibration Check (P2A0708-CCV2)

Prepared: 01/07/22 Analyzed: 01/09/22

C6-C12	479	25.0	mg/kg wet	500		95.7	85-115			
>C12-C28	456	25.0	"	500		91.3	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Matrix Spike (P2A0708-MS1)

Source: 2A06003-12

Prepared: 01/07/22 Analyzed: 01/10/22

C6-C12	984	26.9	mg/kg dry	1080	18.9	89.8	75-125			
>C12-C28	929	26.9	"	1080	15.5	85.0	75-125			
Surrogate: 1-Chlorooctane	133		"	108		123	70-130			
Surrogate: o-Terphenyl	52.8		"	53.8		98.3	70-130			

Matrix Spike Dup (P2A0708-MSD1)

Source: 2A06003-12

Prepared: 01/07/22 Analyzed: 01/10/22

C6-C12	931	26.9	mg/kg dry	1080	18.9	84.8	75-125	5.69	20	
>C12-C28	877	26.9	"	1080	15.5	80.1	75-125	5.86	20	
Surrogate: 1-Chlorooctane	123		"	108		115	70-130			
Surrogate: o-Terphenyl	47.9		"	53.8		89.1	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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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:

1/11/2022

Brent Barron, Laboratory Director/Technical Director

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

PG. 1 of 2

Project Name: Thomas Truck Station Remediation

Project #: PP-21255

Project Loc: Eddy County, Texas **NA**

WORK ORDER #: SRS 2021-113

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

jenniferperez@deandigs.com

Project Manager: Jeff Kindley

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: Chelsie Fortson

e-mail: jeffkindley@deandigs.com

stevecasanova@deandigs.com

kaylanlongee@deandigs.com

elizabethstuart@deandigs.com

(lab use only)

ORDER #: 2A06002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250, mL Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT		
1	BH-1 @ 8"	8"	8"	01/05/21	9:00		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	BH-2 @ 2'	2'	2'	01/05/21	9:30		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X		
3	BH-3 @ 2'	2'	2'	01/05/21	10:00		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X		
4	BH-4 @ 2'	2'	2'	01/05/21	10:30		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	BH-5 @ 2'	2'	2'	01/05/21	11:00		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	BH-6 @ 2'	2'	2'	01/05/21	11:30		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	BH-7 @ 8"	8"	8"	01/05/21	12:00		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	SW-1 @ 1'	1'	1'	01/05/21	1:05		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	SW-2 @ 1'	1'	1'	01/05/21	1:30		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	WW-1 @ 4"	4"	4"	01/05/21	1:35		X	X								Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Special Instructions:

Relinquished by: *Jeff Kindley* Date: *01/06/22* Time: *9:54* Received by: *Chelsie Fortson* Date: *1/6/22* Time: *9:54*

Relinquished by: Date: Time: Received by: Date: Time:

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N

VOCs Free of Headspace? ☒ Y ☐ N

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Sample Hand Delivered ☒ Y ☐ N

by Sampler/Client Rep? ☒ Y ☐ N

by Courier? ☒ Y ☐ N

UPS ☒ DHL ☐ FedEx ☐ Lorie Star

Temperature Upon Receipt: *43* °C *111* °F

Adjusted: *-33* °C Factor *1.1*



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes	Notes
☒	Chain of custody present?
☒	Chain of custody signed/dated/time when relinquished and received?
☒	Sample date/time present on COC for all samples?
☒	Samplers name present on COC?
☒	Chain of custody agrees with sample labels?
☒	Sample containers intact?
☒	Custody seals intact on sample bottles?
☒	Samples in proper container/bottle?
☒	Sufficient sample volume for indicated test?
☒	All samples received within holding time?
☒	Samples received within appropriate temp?
☒	Analysis requested for all samples submitted?
☒	Shipping container/cooler in good condition?
☒	Custody seals intact on shipping container/cooler?

Login Notes: 402 hr 2A06002

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted

Name:

Date/Time:

NC Initiated by:

Approved by:

**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-Thomas Station Remediation

Project Number: PP-21255

Location: Eddy County, NM

Lab Order Number: 2A04007



Current Certification

Report Date: 01/21/22

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-1	2A04007-01	Soil	01/04/22 00:00	01-04-2022 16:22

TCLP Metals and RCI analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

TOX/EOX and TCLP Benzene analysis were subcontracted to A&B Houston. Their current certification can be found here: https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/a&b_env.pdf

NORM analysis were subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to an incompatibility with our LIMS Reporting module.

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

WC-1
2A04007-01 (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	25.6	1.04	mg/kg dry	1	P2A0506	01/05/22 16:39	01/05/22 22:24	EPA 300.0	
Reactive Cyanide	ND	0.250	ppm	1	P2A1402	01/12/22 14:00	01/12/22 14:00	SW846 9010B	SUB-13
Ignitability by Flashpoint	0.00		°F	1	P2A1402	01/13/22 14:00	01/13/22 14:00	ASTM D93-80	SUB-13
pH	ND	0.10	pH Units	1	P2A1402	01/11/22 13:57	01/11/22 13:57	EPA 9045B	SUB-13
Temp Deg C @ pH	0.00		pH Units	1	P2A1402	01/11/22 13:57	01/11/22 13:57	EPA 9045B	SUB-13
% Moisture	4.0	0.1	%	1	P2A0505	01/05/22 14:56	01/05/22 15:00	ASTM D2216	
Reactive Sulfide	ND	50.0	ppm	1	P2A1402	01/12/22 13:00	01/12/22 13:00	SW846 9030B	SUB-13
Total Organic Halides	ND	50.0	mg/kg dry	1	P2A1403	01/10/22 11:00	01/10/22 11:00	EPA 9023	SUB-16

Naturally Occurring Radioactive Material (N.O.R.M.)

Radium 226	1.69	1.61	pCi/g	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Radium 228	ND	0.33	pCi/g	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Lead 210	ND	1.63	pCi/g	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Total Gamma	7.95		pCi/g	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Lead 210 Analysis Error	1.11		+/- 2 Sigma	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Radium 226 Analysis Error	1.16		+/- 2 Sigma	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12
Radium 228 Analysis Error	0.26		+/- 2 Sigma	1	P2A2103	01/11/22 08:02	01/12/22 08:55	EPA 901.1	SUB12

TCLP Metals 1311 by EPA / Standard Methods

Mercury	ND	0.000200	mg/L	1	P2A1401	01/11/22 09:00	01/11/22 14:19	EPA 7470A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Barium	0.617	0.200	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Chromium	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P2A1401	01/11/22 09:00	01/12/22 20:16	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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

Dean	Project: Plains-Thomas Station Remediation
12600 W County Rd 91	Project Number: PP-21255
Midland TX, 79707	Project Manager: Jeff Kindley

WC-1
2A04007-01 (Soil)

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

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Benzene	ND	125	ug/l	1	P2A1403	01/11/22 11:00	01/14/22 08:19	EPA 8260B	SUB-16
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Physical Parameters by APHA/ASTM/EPA Methods

Free Liquid	PASS		N/A	1	P2A0503	01/05/22 08:00	01/05/22 08:15	EPA 9095	
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Dean	Project: Plains-Thomas Station Remediation
12600 W County Rd 91	Project Number: PP-21255
Midland TX, 79707	Project Manager: Jeff Kindley

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 P2A0505 - * DEFAULT PREP *****

Blank (P2A0505-BLK1)		Prepared & Analyzed: 01/05/22								
% Moisture	ND	0.1	%							
Duplicate (P2A0505-DUP1)		Source: 2A04002-09		Prepared & Analyzed: 01/05/22						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2A0505-DUP2)		Source: 2A04004-09		Prepared & Analyzed: 01/05/22						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P2A0505-DUP3)		Source: 2A04004-24		Prepared & Analyzed: 01/05/22						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P2A0505-DUP4)		Source: 2A04006-02		Prepared & Analyzed: 01/05/22						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P2A0505-DUP5)		Source: 2A04004-08		Prepared & Analyzed: 01/05/22						
% Moisture	2.0	0.1	%		17.0			158	20	R3

Batch P2A0506 - * DEFAULT PREP *****

Blank (P2A0506-BLK1)		Prepared & Analyzed: 01/05/22								
Chloride	ND	1.00	mg/kg wet							
LCS (P2A0506-BS1)		Prepared & Analyzed: 01/05/22								
Chloride	40.1		mg/kg	40.0		100	90-110			
LCS Dup (P2A0506-BSD1)		Prepared & Analyzed: 01/05/22								
Chloride	39.8		mg/kg	40.0		99.5	90-110	0.781	10	

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-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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 P2A0506 - *** DEFAULT PREP ***										
Calibration Blank (P2A0506-CCB1)				Prepared & Analyzed: 01/05/22						
Chloride	0.135		mg/kg wet							
Calibration Blank (P2A0506-CCB2)				Prepared & Analyzed: 01/05/22						
Chloride	0.174		mg/kg wet							
Calibration Check (P2A0506-CCV1)				Prepared & Analyzed: 01/05/22						
Chloride	19.3		mg/kg	20.0		96.3	90-110			
Calibration Check (P2A0506-CCV2)				Prepared & Analyzed: 01/05/22						
Chloride	18.3		mg/kg	20.0		91.4	90-110			
Calibration Check (P2A0506-CCV3)				Prepared: 01/05/22 Analyzed: 01/06/22						
Chloride	19.2		mg/kg	20.0		96.0	90-110			
Matrix Spike (P2A0506-MS1)				Source: 2A05004-03		Prepared & Analyzed: 01/05/22				
Chloride	506	10.8	mg/kg dry	538	37.5	87.2	80-120			
Matrix Spike (P2A0506-MS2)				Source: 2A04005-06		Prepared & Analyzed: 01/05/22				
Chloride	17500	62.5	mg/kg dry	3120	13200	138	80-120			QM-05
Matrix Spike Dup (P2A0506-MSD1)				Source: 2A05004-03		Prepared & Analyzed: 01/05/22				
Chloride	505	10.8	mg/kg dry	538	37.5	87.0	80-120	0.191	20	
Matrix Spike Dup (P2A0506-MSD2)				Source: 2A04005-06		Prepared & Analyzed: 01/05/22				
Chloride	17400	62.5	mg/kg dry	3120	13200	135	80-120	0.572	20	QM-05

Permian Basin Environmental Lab, L.P.

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

Dean	Project: Plains-Thomas Station Remediation
12600 W County Rd 91	Project Number: PP-21255
Midland TX, 79707	Project Manager: Jeff Kindley

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2A0503 - *** DEFAULT PREP ***

Duplicate (P2A0503-DUP1)	Source: 2A04007-01	Prepared & Analyzed: 01/05/22		
Free Liquid	PASS	N/A	PASS	200

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

Notes and Definitions

SUB-16 Subcontract of analyte/analysis to Summit Environmental Technologies, Cuyahoga Falls, Ohio.

SUB-13 Subcontract of analyte/analysis to ALS Houston.

SUB12 Analysis was subcontracted to ARS Port Allen Louisiana.

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.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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:

1/21/2022

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

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

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Thomas Station Remediation
Project Number: PP-21255
Project Manager: Jeff Kindley

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



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes	Notes
☒	Chain of custody initiated?
☒	Chain of custody signed/dated/time when relinquished and received?
☒	Sample date/time present on COC for all samples?
☒	Samplers name present on COC?
☒	Chain of custody signed with all participants?
☒	Sample containers intact?
☒	Cooler/seal intact for sample holding?
☒	Samples in proper container/bottle?
☒	Shipping container properly labeled?
☒	All samples received within holding time?
☒	Samples received within holding time? 22.6
☒	Analysis requested for all samples submitted?
☒	Shipping container sealed properly?
☒	Custody seals intact on shipping container/cooler?

Login Notes:
Plastic Bag **2A04007**

PBEL_SAMPLE_CHECKLIST_2021_1

Page 1 of 2



DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:
temp 22.6 SD

Resolution:

Client Contacted
Name: **NO**
Date/Time:
NC Initiated by: **IB** Approved by: _____

PBEL_SAMPLE_CHECKLIST_2021_1

Page 2 of 2



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

January 13, 2022

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS22010208**

Laboratory Results for: **2A04007**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Jan 06, 2022 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script, reading "Bernadette Fini".

Generated By: JUMOKE.LAWAL
Bernadette A. Fini
Project Manager

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
Work Order: HS22010208

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22010208-01	2A04007-01	Soil		04-Jan-2022 00:00	06-Jan-2022 10:20	☐

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
Work Order: HS22010208

CASE NARRATIVE**Work Order Comments**

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Metals by Method SW1311/6020**Batch ID: 174339**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A**Batch ID: 174300**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b**Batch ID: R400329**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2**Batch ID: R400262**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2**Batch ID: R400258**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D**Batch ID: R400179**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
 Project: 2A04007
 Sample ID: 2A04007-01
 Collection Date: 04-Jan-2022 00:00

ANALYTICAL REPORT

WorkOrder:HS22010208
 Lab ID:HS22010208-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A						
	Method:SW1311/6020		Leache:SW1311 / 11-Jan-2022	Prep:SW3010A / 12-Jan-2022		Analyst: JHD
Arsenic	ND		0.0500	mg/L	1	12-Jan-2022 20:16
Barium	0.617		0.200	mg/L	1	12-Jan-2022 20:16
Cadmium	ND		0.0500	mg/L	1	12-Jan-2022 20:16
Chromium	ND		0.0500	mg/L	1	12-Jan-2022 20:16
Lead	ND		0.0500	mg/L	1	12-Jan-2022 20:16
Selenium	ND		0.0500	mg/L	1	12-Jan-2022 20:16
Silver	ND		0.0500	mg/L	1	12-Jan-2022 20:16
TCLP MERCURY BY SW7470A						
	Method:SW7470A		Leache:SW1311 / 11-Jan-2022	Prep:SW7470A / 11-Jan-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	11-Jan-2022 14:19
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B						
	Method:ASTM D92-12b					Analyst: TH
Flash Point	> 212	n	50.0	°F	1	13-Jan-2022 14:00
REACTIVE CYANIDE						
	Method:SW7.3.3.2					Analyst: MZD
Reactive Cyanide	ND	n	100	mg/Kg	1	12-Jan-2022 14:00
REACTIVE SULFIDE						
	Method:SW7.3.4.2					Analyst: MZD
Reactive Sulfide	ND	n	100	mg/Kg	1	12-Jan-2022 13:00
PH SOIL BY SW9045D						
	Method:SW9045D					Analyst: CWG
pH	8.47	H	0.100	pH Units	1	11-Jan-2022 13:57
Temp Deg C @pH	21.5	H	0	°C	1	11-Jan-2022 13:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 13-Jan-22

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 2A04007

WorkOrder: HS22010208

Batch ID: 174279 Start Date: 10 Jan 2022 16:00 End Date: 11 Jan 2022 09:00

Method: TCLP MERCURY EXTRACTION BY SW1311 Prep Code: 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS22010208-01		100 (grams)	2000 (mL)	20

4-oz glass, Neat

Batch ID: 174280 Start Date: 10 Jan 2022 16:00 End Date: 11 Jan 2022 09:00

Method: TCLP METALS EXTRACTION BY SW1311 Prep Code: 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS22010208-01		100 (grams)	2000 (mL)	20

4-oz glass, Neat

Batch ID: 174300 Start Date: 11 Jan 2022 08:30 End Date: 11 Jan 2022 11:30

Method: MERCURY TCLP PREP BY SW7470A Prep Code: 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS22010208-01		10 (mL)	10 (mL)	1

4-oz glass, Neat

Batch ID: 174339 Start Date: 12 Jan 2022 12:00 End Date: 12 Jan 2022 16:00

Method: TCLP LEACHATE DIGESTION BY SW3010A Prep Code: 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS22010208-01		1 (mL)	10 (mL)	10

4-oz glass, Neat

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 174300 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00	11 Jan 2022 09:00	11 Jan 2022 08:30	11 Jan 2022 14:19	1
Batch ID: 174339 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00	11 Jan 2022 09:00	12 Jan 2022 16:00	12 Jan 2022 20:16	1
Batch ID: R400179 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00			11 Jan 2022 13:57	1
Batch ID: R400258 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00			12 Jan 2022 13:00	1
Batch ID: R400262 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00			12 Jan 2022 14:00	1
Batch ID: R400329 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS22010208-01	2A04007-01	04 Jan 2022 00:00			13 Jan 2022 14:00	1

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: 174300 (0)		Instrument: HG03		Method: TCLP MERCURY BY SW7470A					
MBLK	Sample ID: MBLKT2-174300	Units: mg/L		Analysis Date: 11-Jan-2022 14:14					
Client ID:	Run ID: HG03_400174	SeqNo: 6459665		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
MBLK	Sample ID: MBLKT1-174300	Units: mg/L		Analysis Date: 11-Jan-2022 14:12					
Client ID:	Run ID: HG03_400174	SeqNo: 6459664		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
MBLK	Sample ID: MBLK-174300	Units: mg/L		Analysis Date: 11-Jan-2022 14:11					
Client ID:	Run ID: HG03_400174	SeqNo: 6459663		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
LCS	Sample ID: LCS-174300	Units: mg/L		Analysis Date: 11-Jan-2022 14:18					
Client ID:	Run ID: HG03_400174	SeqNo: 6459666		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00489	0.000200	0.005	0	97.8	80 - 120			
MS	Sample ID: HS22010208-01MS	Units: mg/L		Analysis Date: 11-Jan-2022 14:23					
Client ID: 2A04007-01	Run ID: HG03_400174	SeqNo: 6459776		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00513	0.000200	0.005	-0.000025	103	75 - 125			
MSD	Sample ID: HS22010208-01MSD	Units: mg/L		Analysis Date: 11-Jan-2022 14:26					
Client ID: 2A04007-01	Run ID: HG03_400174	SeqNo: 6459777		PrepDate: 11-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00498	0.000200	0.005	-0.000025	100	75 - 125	0.00513	2.97	20
The following samples were analyzed in this batch: HS22010208-01									

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: 174339 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLKT2-174339	Units: mg/L		Analysis Date: 12-Jan-2022 19:56					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461604		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

MBLK	Sample ID: MBLKT3-174339	Units: mg/L		Analysis Date: 12-Jan-2022 19:58					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461605		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

MBLK	Sample ID: MBLKT1-174339	Units: mg/L		Analysis Date: 12-Jan-2022 19:54					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461603		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: 174339 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLK-174339	Units: mg/L		Analysis Date: 12-Jan-2022 19:52					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461602		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	ND	0.00500							
Barium	ND	0.0200							
Cadmium	ND	0.00500							
Chromium	ND	0.00500							
Lead	ND	0.00500							
Selenium	ND	0.00500							
Silver	ND	0.00500							

LCS	Sample ID: LCS-174339	Units: mg/L		Analysis Date: 12-Jan-2022 20:00					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461606		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.05033	0.00500	0.05	0	101	80 - 120			
Barium	0.05123	0.0200	0.05	0	102	80 - 120			
Cadmium	0.05187	0.00500	0.05	0	104	80 - 120			
Chromium	0.0497	0.00500	0.05	0	99.4	80 - 120			
Lead	0.04756	0.00500	0.05	0	95.1	80 - 120			
Selenium	0.05305	0.00500	0.05	0	106	80 - 120			
Silver	0.04873	0.00500	0.05	0	97.5	80 - 120			

MS	Sample ID: HS22010262-01MS	Units: mg/L		Analysis Date: 12-Jan-2022 20:10					
Client ID:	Run ID: ICPMS06_400245	SeqNo: 6461611		PrepDate: 12-Jan-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.5461	0.0500	0.5	0.00603	108	80 - 120			
Barium	0.7407	0.200	0.5	0.2144	105	80 - 120			
Cadmium	0.5362	0.0500	0.5	0.00932	105	80 - 120			
Chromium	0.5292	0.0500	0.5	0.00653	105	80 - 120			
Lead	0.5068	0.0500	0.5	0.00356	101	80 - 120			
Selenium	0.5626	0.0500	0.5	0.01397	110	80 - 120			
Silver	0.4889	0.0500	0.5	-0.00001	97.8	80 - 120			

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: 174339 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
MSD		Sample ID: HS22010262-01MSD		Units: mg/L		Analysis Date: 12-Jan-2022 20:12			
Client ID:		Run ID: ICPMS06_400245		SeqNo: 6461612		PrepDate: 12-Jan-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.5362	0.0500	0.5	0.00603	106	80 - 120	0.5461	1.83	20
Barium	0.7284	0.200	0.5	0.2144	103	80 - 120	0.7407	1.69	20
Cadmium	0.5261	0.0500	0.5	0.00932	103	80 - 120	0.5362	1.91	20
Chromium	0.5094	0.0500	0.5	0.00653	101	80 - 120	0.5292	3.81	20
Lead	0.5087	0.0500	0.5	0.00356	101	80 - 120	0.5068	0.376	20
Selenium	0.544	0.0500	0.5	0.01397	106	80 - 120	0.5626	3.36	20
Silver	0.4848	0.0500	0.5	-0.00001	97.0	80 - 120	0.4889	0.838	20

SD		Sample ID: HS22010262-01SD		Units: mg/L		Analysis Date: 12-Jan-2022 20:08			
Client ID:		Run ID: ICPMS06_400245		SeqNo: 6461610		PrepDate: 12-Jan-2022		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	ND	0.250					0.00603	0	10
Barium	0.2128	1.00					0.2144	0	10 J
Cadmium	ND	0.250					0.00932	0	10
Chromium	ND	0.250					0.00653	0	10
Lead	ND	0.250					0.00356	0	10
Selenium	ND	0.250					0.01397	0	10
Silver	ND	0.250					-0.00001	0	10

The following samples were analyzed in this batch: HS22010208-01

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: R400179 (0)		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
DUP	Sample ID: HS21121174-01DUP	Units: pH Units		Analysis Date: 11-Jan-2022 13:57					
Client ID:	Run ID: WetChem_HS_400179		SeqNo: 6459636		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	8.03	0.100					7.99	0.499	10
Temp Deg C @pH	20.5	0					21	2.41	10
The following samples were analyzed in this batch: HS22010208-01									

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP

Project: 2A04007

WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: R400258 (0)		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
MBLK	Sample ID: MBLK-R400258	Units: mg/Kg		Analysis Date: 12-Jan-2022 13:00					
Client ID:	Run ID: WetChem_HS_400258		SeqNo: 6461192		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	ND	100							
LCS	Sample ID: LCS-R400258	Units: mg/Kg		Analysis Date: 12-Jan-2022 13:00					
Client ID:	Run ID: WetChem_HS_400258		SeqNo: 6461191		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	72	100	100	0	72.0	20 - 120			J
MS	Sample ID: HS22010208-01MS	Units: mg/Kg		Analysis Date: 12-Jan-2022 13:00					
Client ID: 2A04007-01	Run ID: WetChem_HS_400258		SeqNo: 6461193		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	64	100	100	0	64.0	20 - 120			J
The following samples were analyzed in this batch: HS22010208-01									

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP

Project: 2A04007

WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: R400262 (0)		Instrument: UV-2450		Method: REACTIVE CYANIDE					
MBLK	Sample ID: MBLK-R400262	Units: mg/Kg		Analysis Date: 12-Jan-2022 14:00					
Client ID:	Run ID: UV-2450_400262	SeqNo: 6461216		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	ND	100							
LCS	Sample ID: LCS-R400262	Units: mg/Kg		Analysis Date: 12-Jan-2022 14:00					
Client ID:	Run ID: UV-2450_400262	SeqNo: 6461215		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.64	100	10	0	6.40	5 - 100			J
MS	Sample ID: HS22010208-01MS	Units: mg/Kg		Analysis Date: 12-Jan-2022 14:00					
Client ID: 2A04007-01	Run ID: UV-2450_400262	SeqNo: 6461217		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.67	100	10	0	6.70	5 - 100			J
The following samples were analyzed in this batch: HS22010208-01									

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

QC BATCH REPORT

Batch ID: R400329 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS22010397-01DUP		Units: °F		Analysis Date: 13-Jan-2022 14:00				
Client ID:	Run ID: WetChem_HS_400329		SeqNo: 6462704		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	> 212	50.0					0	0	30
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The following samples were analyzed in this batch:

HS22010208-01

ALS Houston, US

Date: 13-Jan-22

Client: Permian Basin Environmental Lab, LP
Project: 2A04007
WorkOrder: HS22010208

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

ALS Houston, US

Date: 13-Jan-22

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Florida	E87611-33	30-Jun-2022
Illinois	2000322021-7	09-May-2022
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2021-2022	30-Jun-2022
Texas	T104704231-21-28	30-Apr-2022

ALS Houston, US

Date: 13-Jan-22

Sample Receipt Checklist

Work Order ID: HS22010208

Date/Time Received: 06-Jan-2022 10:20

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Eric Widjaja	06-Jan-2022 19:05	Reviewed by: /S/ Anna Kinchen	07-Jan-2022 11:52
eSignature	Date/Time	eSignature	Date/Time

Matrices: SoilCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:N/A
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.0°C UC/C IR #31		
Cooler(s)/Kit(s):	Red		
Date/Time sample(s) sent to storage:	01/06/2022 19:10		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

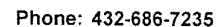
Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



e-mail: brentbarron@gmail.com

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Summit Environmental Technologies, Inc.
3310 Win St.
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January 13, 2022

Brent Barron
PBE LAB
1400 Ranking HWY
Midland, TX 79701
TEL: (432) 686-7235
FAX:
RE: 2A04007

Dear Brent Barron:

Order No.: 22010367

Summit Environmental Technologies, Inc. received 1 sample(s) on 1/7/2022 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Brian J. Fackelman

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: 22010367
Date: 1/13/2022

CLIENT: PBE LAB
Project: 2A04007

WorkOrder Narrative:

22010367: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Workorder Sample Summary

WO#: 22010367
13-Jan-22

CLIENT: PBE LAB
Project: 2A04007

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22010367-001	2A0407-01		1/4/2022	1/7/2022 11:15:00 AM	Solid



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DATES REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22010367-001A	2A0407-01	1/4/2022	Solid	Extractable Organic Halides (EOX) (9)			1/10/2022 11:00:00 AM
				TCLP Volatiles Analysis by SW8260B		1/11/2022 3:00:00 PM	1/12/2022 3:34:00 PM

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WO#: 22010367
 Date Reported: 1/13/2022
 Company: PBE LAB
 Address: 1400 Ranking HWY
 Midland TX 79701
 Received: 1/7/2022
 Project#: 2A04007

TCLP Volatiles Analysis by SW8260B

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
2A0407-01	001	1/4/2022	Benzene	0.250	ND	mg/L	Solid	EPA 8260 B	50	0.500	1/12/2022	SLV
2A0407-01	001	1/4/2022	Surr: 4-Bromofluorobenzene	70-130	98.9	%Rec	Solid	EPA 8260 B	50		1/12/2022	SLV
2A0407-01	001	1/4/2022	Surr: Dibromofluoromethane	70-130	101	%Rec	Solid	EPA 8260 B	50		1/12/2022	SLV
2A0407-01	001	1/4/2022	Surr: Toluene-d8	70-130	100	%Rec	Solid	EPA 8260 B	50		1/12/2022	SLV



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Analytical Report

(consolidated)

WO#: 22010367

Date Reported: 1/13/2022

Lab ID: 22010367-001					Collection Date: 1/4/2022			
Client Sample ID 2A0407-01					Matrix: SOLID			
Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
EXTRACTABLE ORGANIC HALIDES (EOX) (9023)					EPA 9023 B R2 1996		Analyst: KMW	
Extractable Organic Halides	ND	11.7	50.0	U	mg/Kg	1	R138723	1/10/2022 11:00:00 AM
TCLP VOLATILES ANALYSIS BY SW8260B					EPA 8260 B		Analyst: SLV	
Benzene	ND	0.0125	0.250	U	mg/L	50	54279	1/12/2022 3:34:00 PM
Surr: 4-Bromofluorobenzene	98.9		70-130		%Rec	50	54279	1/12/2022 3:34:00 PM
Surr: Dibromofluoromethane	101		70-130		%Rec	50	54279	1/12/2022 3:34:00 PM
Surr: Toluene-d8	100		70-130		%Rec	50	54279	1/12/2022 3:34:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: 54279

Sample ID: MB-54279	SampType: MBLK	TestCode: TCLP-VOC-M	Units: mg/L	Prep Date: 1/11/2022	RunNo: 138866						
Client ID: PBS	Batch ID: 54279	TestNo: SW8260	SW1311M	Analysis Date: 1/12/2022	SeqNo: 3664613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.250									U
Surr: 4-Bromofluorobenzene	2490		2500		99.6	70	130				
Surr: Dibromofluoromethane	2580		2500		103	70	130				
Surr: Toluene-d8	2430		2500		97.2	70	130				

Sample ID: 22010409-001AMS	SampType: MS	TestCode: TCLP-VOC-M Units: mg/L				Prep Date:			RunNo: 138866		
Client ID: BatchQC	Batch ID: 54279	TestNo: SW8260		SW1311M		Analysis Date: 1/12/2022			SeqNo: 3664614		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.914	0.250	1.00	0	91.4	49.2	145				
Surr: 4-Bromofluorobenzene	2550		2500		102	70	130				
Surr: Dibromofluoromethane	2520		2500		101	70	130				
Surr: Toluene-d8	2500		2500		99.9	70	130				

Sample ID: 22010409-001AMSD	SampType: MSD	TestCode: TCLP-VOC-M		Units: mg/L	Prep Date:				RunNo: 138866		
Client ID: BatchQC	Batch ID: 54279	TestNo: SW8260		SW1311M	Analysis Date: 1/12/2022				SeqNo: 3664615		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.941	0.250	1.00	0	94.1	49.2	145	0.914	2.80	25	
Surr: 4-Bromofluorobenzene	2570		2500		103	70	130		0	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: 54279

Sample ID: 22010409-001AMSD	SampType: MSD	TestCode: TCLP-VOC-M	Units: mg/L	Prep Date:	RunNo: 138866						
Client ID: BatchQC	Batch ID: 54279	TestNo: SW8260	SW1311M	Analysis Date: 1/12/2022	SeqNo: 3664615						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	2520		2500		101	70	130		0	25	
Surr: Toluene-d8	2480		2500		99.3	70	130		0	25	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected below quantitation limits
 ND Not Detected
 PL Permit Limit

E Value above quantitation range
 M Manual Integration used to determine area response
 OG1
 R RPD outside accepted recovery limits

H Holding times for preparation or analy
 MC Value is below Minimum Compound
 P Second column confirmation exceeds
 RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: R138423

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: %Rec	Prep Date:	RunNo: 138423						
Client ID: LCSW	Batch ID: R138423	TestNo: SW8260		Analysis Date: 1/3/2022	SeqNo: 3653693						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50.5		50.00		101	70	130				
Surr: Dibromofluoromethane	49.8		50.00		99.7	70	130				
Surr: Toluene-d8	50.0		50.00		100	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: %Rec	Prep Date:	RunNo: 138423						
Client ID: PBW	Batch ID: R138423	TestNo: SW8260		Analysis Date: 1/3/2022	SeqNo: 3653694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	48.5		50.00		97.0	70	130				
Surr: Dibromofluoromethane	49.6		50.00		99.3	70	130				
Surr: Toluene-d8	49.9		50.00		99.9	70	130				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: R138723

Sample ID: MB-R138723	SampType: MBLK	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 138723						
Client ID: PBS	Batch ID: R138723	TestNo: SW9023		Analysis Date: 1/10/2022	SeqNo: 3660799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0									U

Sample ID: LCS-R138723	SampType: LCS	TestCode: EOX_S(9023) Units: mg/Kg			Prep Date:			RunNo: 138723			
Client ID: LCSS	Batch ID: R138723	TestNo: SW9023			Analysis Date: 1/10/2022			SeqNo: 3660800			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	51.0	50.0	50.00	0	102	81	114				

Sample ID: 22010291-001AMS		SampType: MS		TestCode: EOX_S(9023)		Units: mg/Kg		Prep Date:		RunNo: 138723			
Client ID: BatchQC		Batch ID: R138723		TestNo: SW9023				Analysis Date: 1/10/2022		SeqNo: 3660813			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides		480		50.0	500.0	0	96.0	78	116				

Sample ID: 22010291-001AMSD		SampType: MSD	TestCode: EOX_S(9023)			Units: mg/Kg		Prep Date:		RunNo: 138723		
Client ID: BatchQC		Batch ID: R138723	TestNo: SW9023					Analysis Date: 1/10/2022		SeqNo: 3660814		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides		500	50.0	500.0	0	100	78	116	480.0	4.08	20	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

Original
Page 10 of 15



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: R138723

Sample ID: 22010291-001AMSD	SampType: MSD	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 138723						
Client ID: BatchQC	Batch ID: R138723	TestNo: SW9023		Analysis Date: 1/10/2022	SeqNo: 3660814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-R138723	SampType: MBLK	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 138723						
Client ID: PBS	Batch ID: R138723	TestNo: SW9023		Analysis Date: 1/10/2022	SeqNo: 3660815						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0									U

Sample ID: MB-R138723	SampType: MBLK	TestCode: EOX_S(9023)	Units: mg/Kg	Prep Date:	RunNo: 138723						
Client ID: PBS	Batch ID: R138723	TestNo: SW9023		Analysis Date: 1/10/2022	SeqNo: 3660822						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides	ND	50.0									U

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22010367

13-Jan-22

Client: PBE LAB

Project: 2A04007

BatchID: R138723

Sample ID: 22010392-001AMS	SampType: MS	TestCode: EOX_Oil(902) Units: mg/L				Prep Date:				RunNo: 138723		
Client ID: BatchQC	Batch ID: R138723	TestNo: SW9023				Analysis Date: 1/10/2022				SeqNo: 3660818		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Extractable Organic Halides	1650	200.0	1650	72.00	95.6	78	116					

Sample ID: 22010392-001AMSD		SampType: MSD	TestCode: EOX_Oil(902)			Units: mg/L		Prep Date:			RunNo: 138723	
Client ID: BatchQC		Batch ID: R138723	TestNo: SW9023			Analysis Date: 1/10/2022			SeqNo: 3660819			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Organic Halides		1700	200.0	1650	72.00	98.7	78	116	1650	2.99	20	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

Original
Page 12 of 15



Summit Environmental Technologies, Inc.
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-446
Website: <http://www.settek.co>

Qualifiers and Acronyms

WO#: 22010367

Date: 1/13/2022

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Accreditation Program Analytes Report

WO#: 22010367

13-Jan-22

Client: PBE LAB

State: TX

Project: 2A04007

Program Name: DW_NPW_SCM_NI

Sample ID	Matrix	Test Name	Analyte	Status
22010367-001A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	A
	Solid	TCLP Volatiles Analysis by SW8260B	Benzene	N

Page 1 of 1

Original #1

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Brent Barron

Project Name: Subcontract-SET

Company Name: Permian Basin Environmental Lab, LP

Project #: PBELAB

Company Address: 1400 Rankin Hwy

Project Loc: Midland, Texas

City/State/Zip: Midland, Texas 79701

PO #:

Telephone No: 432-686-7235

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: brentbarron@gmail.com

(lab use only)

ORDER #:

(lab use only)

FIELD CODE

2A04007-01

Beginning Depth

Ending Depth

Date Sampled

01/04/22

Time Sampled

0:00

Total # of Containers

1

Ice

☒

HNO₃ 250 ml Poly

HCl 3 Vol Vials

H₂SO₄ 2x250 poly 1 500ml. Ambe

NaOH 500ml poly

Na₂S₂O₃

None 500 ml Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Portable Specify Other

Matrix

TOX

TCLP Benzene

5 day TAT

Analyze For:

Laboratory Comments:

VOCs Free of Headspace?

Y N

Seals on Containers?

Y N

Custody seals on container(s)

Y N

Sample Hand Delivered

Y N

by Sampler/Client Rep.?

Y N

by Courier?

Y N

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt

°C

Adjusted

°C Factor

Relinquished by:

Brent Barron

Date

1/5/2022

Time

1800

Relinquished by:

Received by:

1/7/22

Time

1115

Relinquished by:

Received by:

2.6-1.0: 1.6 °C

Federal, Cooper



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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: **PBE-TX-79701**Work Order Number: **22010367**RcptNo: **1**Logged by: **Tegan A. Richards** **1/7/2022 11:15:00 AM**

Completed By: **Jacqueline Rasile** **1/8/2022 1:17:46 PM**

Reviewed By: **Brian J. Fackelman** **1/10/2022 5:06:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			



2609 North River Road
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ARS Aleut Analytical, LLC

Laboratory Analytical Report

ARS1-22-00016

Permian Basin Environmental Lab
Brent Barron
10014 SCR 1213
Midland, TX 79706
432-686-7235
brentbarron@pbelab.com, sara@pbelab.com

PO Number: **PBELAB**

Questions regarding this analytical report should be addressed to ARS project manager, Gabe Culberson, who can be reached by email at projectmanagers@aaa.alautfederal.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory's certifications and other applicable contract terms and conditions. A full list of the Port Allen, LA laboratory's certifications is provided with this report. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. A statement of uncertainty for each analysis is available upon request. I authorize release and issuance of this report on the date signed below.

Laboratory Management, ARS Aleut Analytical

Signature

Date

Title

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.





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Certifications and Accreditations List

State or Accrediting Body (AB)	Certificate Number
AIHA LAP, LLC	209312
Alaska	LA01131
California	2785
ANAB DoD	ADE-1489
ANAB DOE	ADE-1489.01
Louisiana DEQ - NELAC	01949
Louisiana DHH	LA022
Nevada	LA011312021-2
New Jersey	LA009
New York	64078
Pennsylvania	68-04294-010
Texas	T104704447-21-17
Utah	LA011312021-12
Washington	C1010

For additional information related to the specific matrices, methods, and analytes recognized by each accrediting body, contact us at QA@aaa.alautfederal.com for additional information.



ARS Aleut Analytical, LLC Analytical Reports

for

Permian Basin Environmental Lab

Case Narrative



2609 North River Road • Port Allen, Louisiana 70767

(225) 346-6059 • Fax (225) 381-2996

**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

Client Sample ID	ARS Aleut Analytical Sample ID
2A04007-01	ARS1-22-00016-001

Sample	Date Collected	Date Received	Analysis	Basis	Prep Date/Time	Analysis Date/Time
001	01/04/22 00:00	01/07/22	GAM-A-SO	As Received	01/11/22 08:02	01/12/22 08:55

SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **PALA-SR-001-SOP Sample Receiving**. Sample date(s) and time(s) are listed as provided by the client. Turnaround time was set at 10 work days.

ANALYTICAL METHODS

Be-7, Bi-212, Bi-214, Ir-192, K-40, Pa-234, Pb-210, Pb-214, Ra-224, Ra-226, Ra-228, Sc-46, Th-228, Tl-208, Tl-210, Total NORM Activity, Total NORM Gamma, U-235, and U-238 analyses were performed using **PALA-RAD-007, "Modified Gamma Emitting Radionuclides in Soil, Air, and Biota Matrices (EPA 901.1 Mod, SM 7120B, & HASL-300 Ga-01-R)"**.

ANALYTICAL RESULTS

All QC criteria were met.

Notes (Case Narrative)

Definitions:

CRDL	Contract Required Detection Limit
CSU	Combined Standard Uncertainty
DLC	Decision Level Concentration (ANSI N42.23)
DO	Duplicate Original
DUP	Sample Duplicate
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
LOD	Limit of Detection
LOQ	Limit of Quantitation
MBL	Method Blank
MCL	Maximum Contaminant Level
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
NC	Not Calculated
NP	Not Provided
NR	Not Referenced
PQL	Practical Quantitation Limit

Data Qualifiers:

B	The result of both the method blank and the target sample are above the MDL.
D	Sample analysis accomplished through dilution.
J	The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL.
Q	One or more quality control criteria failed.
U	Result is below the MDA, MDL, PQL, LOD, or LOQ
*	LCS/LCSD or Sample DUP fails all Duplicate criteria.
S	Spike
SC	Subcontracted out to another qualified laboratory
H	Holding time exceeded
E	Exceeds MCL
**	Reporting Limit is higher than MCL; Target cannot be detected
‡	Method/Matrix/Analyte not accredited for this certification

Radiochemistry Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 4.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 5.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 6.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 7.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 8.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 9.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Non-Potable Water**:
Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Enriched Tritium (ARS-040), Carbon-14 (ARS-019), Tritium/Carbon (ARS-151); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03); Technetium-99 (Eichrom TCW02)
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Solid and Chemical Materials**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-01-RC); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01)
- 11.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Air and Emissions**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01)

General Comments:

- 1.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "M" or "Mod" to the procedure number (i.e. 901.1M, 901.1 Mod).
- 2.0) All NIOSH method results are reported without blank corrections applied.
- 3.0) Basis: "As Received" = analyzed as received from client; "Dry" = dried prior to being analyzed; "Dry Weight Corrected" = analyzed as received; result corrected for percent moisture.



ARS Aleut Analytical, LLC Analytical Reports

for

Permian Basin Environmental Lab

Analytical Results



2609 North River Road • Port Allen, Louisiana 70767

(225) 346-6059 • FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-22-00016

Client Sample ID: 2A04007-01

Sample Collection Date: 01/04/22 0:00

Sample Matrix: Soil/Solid/Sludge

Percent Solids: N/A

Request or PO Number: PBELAB

ARS Sample ID: ARS1-22-00016-001

Date Received: 01/07/22

Report Date: 01/21/22

Radiochemistry

Analysis Method: EPA 901.1M

Analysis Description	Analysis Results	CSU +/- 2 s	MDC	DLC	CRDL	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Be-7	-0.209	0.562	0.716	0.358	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Bi-212	-0.297	0.615	0.751	0.376	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Bi-214	0.693	0.172	0.139	0.070	NP		pCi/g	01/12/22 8:55	EEC	N/A
K-40	4.343	1.102	0.738	0.369	NP		pCi/g	01/12/22 8:55	EEC	N/A
Pb-210	-0.354	1.106	1.630	0.815	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Pb-214	0.707	0.172	0.202	0.101	NP		pCi/g	01/12/22 8:55	EEC	N/A
Ra-226	1.692	1.165	1.610	0.805	NP		pCi/g	01/12/22 8:55	EEC	N/A
Ra-228	0.090	0.258	0.328	0.164	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Sc-46	-0.046	0.085	0.099	0.050	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Th-228	0.256	0.093	0.116	0.058	NP		pCi/g	01/12/22 8:55	EEC	N/A
Tl-208	0.065	0.046	0.060	0.030	NP		pCi/g	01/12/22 8:55	EEC	N/A
U-235	0.103	0.321	0.445	0.223	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
U-238	-0.485	1.249	1.780	0.890	NP	U	pCi/g	01/12/22 8:55	EEC	N/A
Total NORM Gamma	7.949	N/A	N/A	N/A	NP		pCi/g	01/12/22 8:55	EEC	N/A
Total NORM Activity	12.488	N/A	N/A	N/A	NP		pCi/g	01/12/22 8:55	EEC	N/A



ARS Aleut Analytical, LLC Analytical Reports

for

Permian Basin Environmental Lab

Batch QC



QC Results per Analytical Batch

Analytical Batch	ARS1-B22-00050
SDG	ARS1-22-00016
Analysis	Gamma Spec (Solid)
Method	EPA 901.1M
Analysis Code	GAM-A-SO
Report Units	pCi/g

Acceptable QC Performance Ranges

QC Sample Type	Performance Items and Ranges		
Laboratory Control Sample	Recovery (%):	> 75	< 125
Matrix Spike	Recovery (%):	> 60	< 140
Duplicate	Duplicate Error Ratio (DER):		< 3
	Relative Percent Difference (RPD %):		≤ 25

Laboratory Control Sample			Analysis Date	01/12/22 08:19	Analysis Technician	EEC	
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	Expected Value	LCS Rec (%)	MDC
ARS1-B22-00050-01	LCS	AM-241	3.717E+4	2.882E+3	4.000E+4	92.9	893.100
ARS1-B22-00050-01	LCS	CO-60	6.995E+4	3.764E+3	6.719E+4	104.1	1.586E+3
ARS1-B22-00050-01	LCS	CS-137	5.596E+4	2.543E+3	5.727E+4	97.7	409.100

Duplicate RER/DER/RPD			Analysis Date	01/12/22 08:31	Analysis Technician	EEC	
Analyte	Results LCS	CSU LCS (2s)	Results LCSD	CSU LCSD (2s)	DER	RPD	
AM-241	3.717E+4	2.882E+3	3.715E+4	2.871E+3	0.012	0.1	
CO-60	6.995E+4	3.764E+3	6.574E+4	4.546E+3	1.399	6.2	
CS-137	5.596E+4	2.543E+3	5.610E+4	2.547E+3	0.078	0.3	

Method Blank			Analysis Date	01/12/22 08:18	Analysis Technician	EEC	
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	MDC	Qual	
ARS1-B22-00050-03	MBL	BE-7	-0.028	0.379	0.521	U	
ARS1-B22-00050-03	MBL	BI-212	0.164	0.313	0.403	U	
ARS1-B22-00050-03	MBL	BI-214	0.005	0.199	0.258	U	
ARS1-B22-00050-03	MBL	IR-192	0.012	0.038	0.052	U	
ARS1-B22-00050-03	MBL	K-40	0.080	0.409	0.774	U	
ARS1-B22-00050-03	MBL	PA-234	0.149	0.106	0.166	U	
ARS1-B22-00050-03	MBL	PB-210	0.714	0.748	1.070	U	
ARS1-B22-00050-03	MBL	PB-214	-0.023	0.127	0.189	U	
ARS1-B22-00050-03	MBL	RA-224	-0.767	1.186	2.060	U	
ARS1-B22-00050-03	MBL	RA-226	0.285	1.084	1.520	U	
ARS1-B22-00050-03	MBL	RA-228	-0.027	0.215	0.302	U	
ARS1-B22-00050-03	MBL	SC-46	-0.006	0.059	0.075	U	
ARS1-B22-00050-03	MBL	TH-228	-0.040	0.103	0.150	U	
ARS1-B22-00050-03	MBL	TL-208	-0.005	0.061	0.086	U	
ARS1-B22-00050-03	MBL	TL-210	-0.005	0.055	0.075	U	
ARS1-B22-00050-03	MBL	U-235	-0.053	0.349	0.419	U	
ARS1-B22-00050-03	MBL	U-238	-0.286	0.857	1.290	U	



ARS Aleut Analytical, LLC Analytical Reports

for

Permian Basin Environmental Lab

Sample Management Records

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Name: Subcontract-ARS

Project #: PBELAB

Project Loc: Midland, Texas

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: brentbarron@gmail.com

[illegible]

ARS Aleut Analytical, LLC
Port Allen Laboratory

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SDG Report - Samples and Containers

SDG Specific Data							
SDG	ARS1-22-00016			TAT Days	10 Business Days	Project Type	Environmental
Sample Count	1	Rpt Level	2	Date Received	01/07/2022	COC Number	
Client	Permian Basin Environmental Lab			Discrepancy Resol	N/A	PO Number	PBELAB
Client Code	703			Client Deadline	01/21/2022	Job Number	
Profile Number	PN-00783					Job Location	
Comment							

Samples and Containers Checked In Thus Far									
FR	Name	Matrix	Start Date	End Date	Disp	Hold	Arch	Storage	Comments
001	2A04007-01	Soil/Solid/Sludge	01/04/2022 00:00	01/04/2022 00:00	H	30	10	PrePrep	
	IC_ID	Cnt	Container Type	Container Size	pH Orig	pH Final	Temp (C)		Comments
	410276	1	HDP Container	Plastic Zip Bag					

ARS Aleut Analytical, LLC
Port Allen Laboratory

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SDG Report - Analysis Assignments

SDG	ARS1-22-00016	Sample Count	1
Client	Permian Basin Environmental Lab	Analysis Count	1-1

Sample Count Totals Per Analysis			
Analysis Code	Analysis Description	In/Out	Samples Count
GAM-A-SO	Gamma Spec (Short) in (Soil, Sludge, Waste, Sediment,Biota [SO, BI, VG])	I	1

Analyses Assigned Per Fraction		
Fraction	Analysis Code	X = Assigned
001	GAM-A-SO	X

ARS Aleut Analytical, LLC
Port Allen Laboratory

DQO Report for SDG

ARS1-22-00016

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Page 1 of 2

Client Name: Permian Basin Environmental Lab

Profile Name: Midland TX

Report Level: 2

Analysis Code	Prep Type	Units	Aliquot	Prep Code	Procedure	Count Time					
GAM-A-SO	WGAM	pCi	g	N/A	PALA-RAD-007						
	Analyte			RDL	LCS LL/UL	MS LL/UL	RadY LL/UL	GravY LL/UL	RER	RPD	Surr LL/UL
	Be-7 (13966-02-4)				75/125	60/140	30/120	40/110	1	25	N/A
	Bi-212 (14913-49-6)				75/125	60/140	30/120	40/110	1	25	N/A
	Bi-214 (14733-03-0)				75/125	60/140	30/120	40/110	1	25	N/A
	Ir-192 (14694-69-0)				75/125	60/140	30/120	40/110	1	25	N/A
	K-40 (13966-00-2)				75/125	60/140	30/120	40/110	1	25	N/A
	Pb-210 (14255-04-0)				75/125	60/140	30/120	40/110	1	25	N/A
	Pb-214 (15067-28-4)				75/125	60/140	30/120	40/110	1	25	N/A
	Ra-224 (13233-32-4)				75/125	60/140	30/120	40/110	1	25	N/A
	Ra-226 (13982-63-3)				75/125	60/140	30/120	40/110	1	25	N/A
	Ra-228 (15262-20-1)				75/125	60/140	30/120	40/110	1	25	N/A
	Sc-46 (13967-63-0)				75/125	60/140	30/120	40/110	1	25	N/A
	Th-228 (14274-82-9)				75/125	60/140	30/120	40/110	1	25	N/A
	Tl-208 (14913-50-9)				75/125	60/140	30/120	40/110	1	25	N/A
	Tl-210				75/125	60/140	30/120	40/110	1	25	N/A
	U-235 (15117-96-1)				75/125	60/140	30/120	40/110	1	25	N/A
	U-238 (7440-61-1)				75/125	60/140	30/120	40/110	1	25	N/A
	Pa-234 (15100-28-4)				75/125	60/140	30/120	40/110	1	25	N/A
	Total NORM Activity				75/125	60/140	30/120	40/110	1	25	N/A
	Total NORM Gamma				75/125	60/140	30/120	40/110	1	25	N/A

ARS Aleut Analytical, LLC
Port Allen Laboratory

DQO Report for SDG

ARS1-22-00016

Printed: 1/21/2022 1:06 PM
Page 2 of 2

Analysis Code	Fraction	Units	Aliquot	Conductivity	Analyte Count
GAM-A-SO	001	pCi	g	N/A	19
		Group		Analyte	
		NORM		Be-7	
		NORM		Bi-212	
		NORM		Bi-214	
		NORM		Ir-192	
		NORM		K-40	
		NORM		Pa-234	
		NORM		Pb-210	
		NORM		Pb-214	
		NORM		Ra-224	
		NORM		Ra-226	
		NORM		Ra-228	
		NORM		Sc-46	
		NORM		Tl-208	
		NORM		Tl-210	
		NORM		U-235	
		NORM		U-238	
		NORM		Total NORM Activity	
		NORM		Total NORM Gamma	
		NORM		Th-228	



PAL Sample Receipt Inspection Form

Client Name: pbetlabSDG: ARS1-22-100016

Sample Receipt Inspection Form

PALA-SR-001-FM-01 r 00.1

Effective 08/30/2019

Page 1 of 1

Sample Custodian: Morgan Survey Start Date: 4/9/22 Survey Start Time: 12:24
 Thermometer ID: E0064010013 Calibration Due Date: 2-1-22 pH Paper Lot# NA
 Exposure Rate Meter + Probe Unit ID: PR293744/242885 Calibration Due Date: 2-5-22 Background: 10 μ R/hr
 Count Rate Meter + Probe Unit ID: PR213066/211546 Calibration Due Date: 1-29-22 Background: 30 cpm
 Delivery Type (circle one): Direct Lock Box Commercial Carrier F.I.E.E. Total # of ESCs: 1

*True temperature is recorded which includes any applicable correction factors.

External Shipping Container Tracking:	Exposure Rate (μ R/hr) (limit <500 μ R/hr)	Max External Swipe Counts (cpm)	Max Internal Swipe Counts (cpm)	ESC True Temps* ($^{\circ}$ C)	TRAX Matrix ID (circle all that apply): (See Section 4.3 of SOP)
A: <u>814845409677</u>	<u>10</u>	<u>40</u>	<u>50</u>	<u>NA</u>	AQ WD WG WO
B: _____	_____	_____	_____	_____	WS WW SI UR
C: _____	_____	_____	_____	_____	<u>SO</u> OL BI VG
D: _____	_____	_____	_____	_____	WP SM AF
E: _____	_____	_____	_____	_____	
F: _____	_____	_____	_____	_____	

Visual Inspection: (Circle response)
External Shipping Container

Good Condition with no Leaks or Tears Yes No
 Marked Radioactive Yes No
 UN2910 Yes No
 Security Seals Yes No
 If yes, intact? Yes No N/A

Internal Shipping Container

COC's Present Yes No
 Well packaged container with no signs of leakage Yes No

Comments:

COC/Sample Inspection

(Circle response)

Sample Containers in good condition Yes No
 No spills or leaks Yes No
 Marked Radioactive Yes No
 Durable labels w/indelible ink Yes No
 COC relinquished/received correctly Yes No
 Adequate volume/filled correctly Yes No
 Hold Time sufficient for analysis Yes No
 For VOC/Radon, Head space? Yes No N/A
 If yes, <6mm? Yes No N/A
 # of containers received matches # on COC Yes No
 Samples received on ice? Yes No
 Type (circle one): Bagged Ice Loose Ice Blue Ice N/A



ALA Sample Survey Form

Client Name: PBELab
SDG: ARSL-22-0004

Sample Survey Form
PALA-SR-001-FM-02 r 0.1
Effective 08/30/2019

Pipette ID: NA Tip Lot#: NA

Disposable pipette lot#: MA

*pH <2 is
Acceptable*

Acceptance Limits
<100 cpm/cm

[illegible]

Sample Custodian: Morgan Survey End Date: 7/1/25 Survey/pH End Time: 12:27

pH re-check required? YES or NO

NOTE: Any metals sample acidified at sample receiving must be re-checked after a 24 hour hold.

If YES: pH re-check date/time: _____ / _____ Analyst: _____ pH strip lot #: _____

Were all re-checked samples' pH < 2? YES or NO*

**If no, complete and send to Project Management:*

1. Section A of PALA-SR-001-FM-05 (24 Hour Hold pH Readjustment)

2. SR section of PALA-SR-001-FM-03 (Discrepant Sample Receipt Report).

FedEx
Express

Package
US Airbill

 FedEx
Tracking
Number

8148 4540 9677

Form 10 No. 0200

Recipient's Copy

1 **From**

Date 1/5/22

Sender's Name **EXPT PARMA** Phone 432-661-1234

Company **PARMA**

Address **1400 P. 1001**

City **PARMA** State **IN** ZIP **46323**

Dept./Floor/Suite/Room

2 **Your Internal Billing Reference** **MIFA13**

3 **To**

Recipient's Name **PARMA** Phone **432-661-1234**

Company **PARMA**

Address **1400 P. 1001**

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address **1400 P. 1001**

Use this line for the HOLD location address or for continuation of your shipping address.

City **PARMA** State **IN** ZIP **46323**

4 **Express Package Service**

* To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the
FedEx Express Freight US Airbill.

Next Business Day

☐ **FedEx First Overnight**
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ **FedEx Priority Overnight**
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ **FedEx Standard Overnight**
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ **FedEx 2Day A.M.**
Second business morning.* Saturday Delivery NOT available.

☐ **FedEx 2Day**
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ **FedEx Express Saver**
Third business day.* Saturday Delivery NOT available.
5 **Packaging**

* Declared value limit \$500.

☐ **FedEx Envelope***
☐ **FedEx Pak**
☐ **FedEx Box**
☐ **FedEx Tube**

Other

6 **Special Handling and Delivery Signature Options**

Fees may apply. See the FedEx Service Guide.

☐ **Saturday Delivery**

NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ **No Signature Required**
Package may be left without obtaining a signature for delivery.

☐ **Direct Signature**
Someone at recipient's address may sign for delivery.

☐ **Indirect Signature**
If no one is available at recipient's address, someone at neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ **No**
☐ **Yes**

As per attached Shipper's Declaration.

☐ **Yes**

Shipper's Declaration not required.

☐ **Dry Ice**
Dry ice, 9, UN 1845

☐ **Cargo Aircraft Only**

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

7 **Payment Bill to:**

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐
☒ **Sender**
Acct. No. in Section 1 will be billed.

☐ **Recipient**
☐ **Third Party**
☐ **Credit Card**
☐ **Cash/Check**

Total Packages

Total Weight

Credit Card Auth.



8148 4540 9677

644

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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APPENDIX C
PHOTOGRAPHIC DOCUMENTATION

Photograph No 1.

Date: December 30, 2021

Direction: East

Description: View of release area.

**Photograph No 2.**

Date: December 30, 2021

Direction: West

Description: View of release area.



Photograph No 3.

Date: January 4, 2022

Direction: Southeast

Description: View of soil remediation adjacent to LACT unit.



Photograph No 4.

Date: January 5, 2022

Direction: West

Description: View of remediation west of LACT unit.



Photograph No 5.

Date: January 28, 2022

Direction: South

Description: Backfilling of excavation.



Photograph No 6.

Date: January 28, 2022

Direction: East

Description: View of completed backfilling of site.



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 77567

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 77567
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	3/17/2022