Page 1 of 169

Incident ID	nAPP2102629238
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	ng items must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.2	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							
and regulations all operators are required to report and/or file cer may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name:  Amber Groves  Signature:	•						
OCD Only							
Received by: Chad Hensley	Date: <u>08/03/2021</u>						
	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations.						
Closure Approved by:	Date: 08/03/2021						
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced						



12600 WEST CO RD 91 MIDLAND, TX 79707 OFFICE: 432.653.4203

# SOIL REMEDIATION ACTIVITIES REPORT AND CLOSURE REQUEST

PLAINS PIPELINE, L.P.

**HUDSON FEDERAL 4" PIPELINE RELEASE** 

LEA COUNTY, NM

NMOCD INCIDENT #: nAPP2102629238

SRS #: 2021-004

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- Appendix A. NMOCD C-141 Forms
- Appendix B. Laboratory Analytical Reports
- Appendix C. Photographic Documentation
- Appendix D. Extension Request and NMOCD Response

May 19, 2021

New Mexico Oil Conservation Division District I 1625 N. French Dr. Hobbs, New Mexico 88240

Re: Soil Remediation Activities Report and Closure Request

**Hudson Federal 4" Pipeline Release** 

Unit Letter C, Section 10, Township 20S, Range 34E

GPS: N 32.594895°, W -103.550685°

Lea County, New Mexico

NMOCD Incident #: nAPP2102629238

SRS #: 2021-004

## 1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and Closure Request to Plains Pipeline, L.P. (Plains) to document the field soil remediation activities that were conducted at the Hudson Federal 4" Pipeline Release site. The crude oil release occurred, approximately 16.78 miles east of Monument in Lea County, New Mexico in Unit Letter C, Section 10, Township 20S, and Range 34E. The GPS coordinates for the site is N 32.594895° and W -103.550685°. A "Site Location Map" and "Topographic Map" are provided as Figures 1 and 2, respectively.

## 2. Release Description and Response

On January 21, 2021, a crude oil release occurred at the Hudson Federal 4" Pipeline and was attributed to a fusion failure on a 4" poly pipeline. Approximately eight and five one hundredths (8.05) barrels (bbls) of crude was released with six and three quarters (6.75) bbls recovered for a net loss of one and three tens (1.3) bbls of crude. The release was located in an open pasture owned by the Bureau of

Land Management (BLM) and measured approximately eighty-five (85) feet (ft) in length by eighty-five (85) ft in width with a maximum depth of twenty-three (23) ft below ground surface (bgs).

On January 22, 2021, Dean was assigned management oversite responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains. On January 28, 2021, Plains submitted the initial C-141 Form to the NMOCD. In addition, the C-141 was also sent to the BLM, subsequent to immediate notification on January 21, 2021. See Appendix A for filed C-141.

## 3. NMOCD Regulatory Limits

New Mexico Oil Conservation Division (NMOCD) assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and follow the criteria in the revised August 2018 Title 19 Chapter 15 Part 29 New Mexico Administration Code (19.15.29 NMAC) regulations. Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the New Mexico Bureau of Geology & Mineral Resources (NMBGMR) were accessed to determine if any registered water wells were located in or near Unit Letter C, Section 10, Township 20S, and Range 34E. Neither of the two databases identified any registered water wells within a half mile of Unit Letter C, Section 10, Township 20S, and Range 34E. 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 Monument Draw located approximately 19.73 miles east southeast of the site. With the release located in a pasture, and in accordance with the BLM, 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 Soil Assessment Activities and Sample Analysis

On January 22, 2021, initial soil assessment activities were performed at the release site. A hand auger was utilized to collect soil samples from the site to determine depth of hydrocarbon impacts. Soil samples were collected at two (2) ft. intervals beginning at one (1) ft below ground surface (bgs) to maximum depths ranging from three (3) ft. to fifteen (15) ft bgs across five (5) auger hole locations (AH-

1 through AH-5) and placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to Permian Basin Environmental Lab of Midland, Texas, (PBELAB). Samples were analyzed for total petroleum hydrocarbons (TPH) utilizing Method SW-846 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) utilizing Method SW-846 8021B, and chlorides utilizing Method 300.0. See Figure 4 "Initial Site Delineation Details Location Map". The Benzene concentrations exceeded the NMOCD standards of 10 milligrams per kilogram (mg/Kg) for soil samples AH-1 @ 1' (12.9 mg/Kg), AH-1 @ 7' (10.6 mg/Kg), and AH-1 @ 9' (13.4 mg/Kg). All remaining soil samples analyzed for Benzene were either below method detection limits or the NMOCD standard of 10 mg/Kg. Total BTEX concentrations exceeded the NMOCD standards of 50 mg/Kg for soil samples AH-1 @ 1' (414.8 mg/Kg), AH-1 @ 3' (251.05), AH-1 @ 5' (220.78 mg/Kg), AH-1 @ 7' (158.7 mg/Kg), AH-1 @ 9' (97.99 mg/Kg), and AH-1 @ 11' (61.7 mg/Kg). All remaining soil samples analyzed for Total BTEX were either below method detection limits or the NMOCD standard of 50 mg/Kg. The Total TPH exceeded the NMOCD standards of 100 mg/Kg for soil samples AH-1 @ 1' (38,360 mg/Kg), AH-1 @ 3' (19,820 mg/Kg), AH-1 @ 5' (14,560 mg/Kg), AH-1 @ 7' (26,130 mg/Kg), AH-1 @ 9' (40,870 mg/Kg), AH-1 @ 11' (15,720 mg/Kg), AH-1 @ 13' (9,930 mg/Kg), and AH-5 @ 1' (3,540 mg/Kg). All remaining soil samples analyzed for Total TPH were either below method detection limit or the NMOCD standards of 100 mg/Kg. During the initial sampling, Augur Hole AH-1 TPH concentration was not delineated with depth. In order to complete delineation, a trackhoe was utilized on January 27, 2021 and additional samples were collected at two (2) foot intervals from twenty-one (21) to twenty-five (25) feet bgs and submitted to the lab for analysis of TPH. Of the three soil samples submitted for analysis, only AH-1 @ 21' exceeded the NMOCD standard with a concentration of 15,590 mg/Kg. The Chloride concentrations for all samples were below the NMOCD standard of 600 mg/Kg for all samples analyzed. See Table 1 for delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix B.

## 5. Soil Delineation and Remediation with Confirmation Soil Sampling

Between January 23 and March 3, 2021, Dean Personnel conducted oversite of soil delineation, remediation and backfilling activities at the Hudson Federal 4" Pipeline Release site. Remediation commenced utilizing a backhoe, excavator, and hand excavation of hydrocarbon impacted soils adjacent to the pipeline with the excavated soils stockpiled on plastic. In order to complete delineation and remediation at the site, field screening utilizing a photoionization detector (PID) and chloride test kits was conducted on the soils. Based on field PID, chloride screening, and analytical results, the site was excavated to a maximum depth of twenty-three (23) ft bgs. The release was contained to the area within the field located adjacent to the pipeline with final dimensions of approximately eighty-five (85)

feet (ft) in length by eighty-five (85) ft in width. See Site Photographs in Appendix C. Approximately 2,412 cubic yards of soil were removed and stockpiled on plastic at the site.

On February 3, 2021, ten (10) bottom hole samples (BH-1 @ 23', BH-2 @ 17', BH-3 @ 13', BH-4 @ 13', BH-5 @ 13', BH-6 @ 13', BH-7 @ 13', BH-8 @ 13', BH-9 @ 13' and BH-10 @ 13') were collected based on a 200 square foot grid 5-point composite and submitted for analysis of BTEX, Total TPH, and Chlorides. See Figure 5 "Site Details and Bottom Hole Soil Sample Location Map". All soil sample concentrations were below method detection limits for Benzene, Total BTEX and Total TPH. Chlorides were below the NMOCD standard of 600 mg/Kg with results ranging from <1.04 mg/Kg (BH-9 @ 13') to 36.2 mg/Kg (BH-1 @ 23'). See Table 2 Confirmation-Concentrations of Benzene, BTEX, TPH, and Chlorides in soil for analytical results.

On February 3, 2021, thirty-four (34) side wall samples (NW-1 through NW-4, NBF-1, NBF-2, SW-1 through SW-5, SBF-1, SBF-2, SEW-1, SEW-2, SEBF-1 through SEBF-3, EW-1 through EW-9, EBF-1 through EBF-4, and WW-1 through WW-3, ranging in depths from one and a half (1.5) ft bgs to eighteen (18) ft bgs were collected based on a 200 square foot grid 5-point composite and submitted for analysis of Benzene, Total BTEX, Total TPH, and Chlorides. See Figure 6 "Site Details and Confirmation Wall Hole Soil Sample Location Map". All soil sample concentrations were below method detection limits for both Benzene and Total TPH. The Total BTEX was either below method detection limits or the NMOCD standards of 50 mg/Kg total BTEX. Chloride concentrations ranged from below method detection limits on a majority of samples to 69.7 mg/Kg (WW-1 @ 18') and were below the NMOCD standards of 600 mg/Kg.

#### 6. Site Extension Request

On April 22, 2021, Plains requested an extension of NMOCD Incident #: nAPP2102629238 which was granted on April 26, 2021 by the NMOCD until May 22, 2021. See Appendix E for copies of the extension requests and approvals. See Appendix D for a copy of the extension request and approval.

## 7. Soil Disposal, Site Restoration and Closure Request

Between February 10 and March 3, 2021, approximately 2,412 cubic yards of soil were transported offsite for disposal at Lacy Ace Land Farm in Eunice, New Mexico. The site was then backfilled with locally sourced non-impacted soils and brought up to surface grade and contoured to match surrounding topography. Manifests are available upon request.

In accordance with 19.15.290.13 NMAC, the site will be reseeded utilizing BLM # 1 seed per BLM guidance, when growing conditions are ideal and danger of frost is not present. The seed will be

broadcast at double the recommended rate and harrowed for completion. Erosion control methods will be implemented, as needed, to increase long term stability of the site. The site will be monitored by Plains for desired achievement growth of native grasses and re-seeded if necessary.

With the completion of site remediation activities, Plains respectfully requests the NMOCD approval of closure of NMOCD incident # nAPP2102629238. Plains also request BLM approval of remediation requirements being met. An updated C-141 closure can be found as the cover page for this report.

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

Sincerely,

Sylwia Reynolds

**Project Manager** 

Jeffrey Kindley, 6G.

**Professional Geologist** 

**TABLES** 



#### Chemistry Table 1

## Delineation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

#### Plains Pipeline, L.P.

#### **Hudson Federal 4 Remediation**

### Lea County, New Mexico

	SAMPLE	INFORMATI	ON			METHODS:	EPA SW 846-80	021B, 5030		METHOD: E 300		METHOD	S: EPA SW 84	46-8015M	
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
AH-1 @ 1'	01/22/21	1 FT	GRAB	SOIL	12.9	95	82.4	224.5	414.8	99.4	11,900	22,300	34,200	4,160	38,360
AH-1 @ 3'	01/22/21	3 FT	GRAB	SOIL	6.25	53.5	49	142.3	251.05	48.9	5,730	11,900	17,630	2,190	19,820
AH-1 @ 5'	01/22/21	5 FT	GRAB	SOIL	7.38	55.1	42.1	116.2	220.78	7.14	4,400	8,710	13,110	1,450	14,560
AH-1 @ 7'	01/22/21	7 FT	GRAB	SOIL	10.6	38.8	34.9	74.4	158.7	-	9,490	14,500	23,990	2,140	26,130
AH-1 @ 9'	01/22/21	9 FT	GRAB	SOIL	13.4	42.8	39.1	89.4	184.7	-	16,200	21,300	37,500	3,370	40,870
AH-1 @ 11'	01/22/21	11 FT	GRAB	SOIL	5.29	22.1	20.4	50.2	97.99	-	4,410	9,630	14,040	1,680	15,720
AH-1 @ 13'	01/22/21	13 FT	GRAB	SOIL	2.02	5.9	15	38.78	61.7	-	2,360	6,490	8,850	1,080	9,930
AH-1 @ 15'	01/22/21	15 FT	GRAB	SOIL	0.00222	0.00501	0.00587	0.02778	0.04088	-	<27.2	90.5	90.5	<27.2	90.5
AH-1 @ 21'	01/27/21	21 FT	GRAB	SOIL	-	-	-	-		-	6,550	7,780	14,330	1,260	15,590
AH-1 @ 23'	01/27/21	23 FT	GRAB	SOIL	-	-	-	-	-	-	<29.8	<29.8	<29.8	<29.8	<29.8
AH-1 @ 25'	01/27/21	25 FT	GRAB	SOIL	-	-	-	-	-	-	<29.8	<29.8	<29.8	<29.8	<29.8
AH-2 @ 1'	01/22/21	1 FT	GRAB	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	6.98	<25.3	<25.3	<25.3	<25.3	<25.3
AH-2 @ 3'	01/22/21	3 FT	GRAB	SOIL	-	-	-	-	1	6.04	<25.5	<25.5	<25.5	<25.5	<25.5
AH-2 @ 5'	01/22/21	5 FT	GRAB	SOIL	-	-	-	-	-	6.34	<25.5	<25.5	<25.5	<25.5	<25.5
AH-3 @ 1'	01/22/21	1 FT	GRAB	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1.83	<25.3	<25.3	<25.3	<25.3	<25.3
AH-3 @ 3'	01/22/21	3 FT	GRAB	SOIL	_	-	-	-	-	5.31	<25.5	<25.5	<25.5	<25.5	<25.5
AH-3 @ 5'	01/22/21	5 FT	GRAB	SOIL	-	-	-	-	ı	6.24	<25.3	<25.3	<25.3	<25.3	<25.3
AH-4 @ 1'	01/22/21	1 FT	GRAB	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	6.51	<25.3	<25.3	<25.3	<25.3	<25.3
AH-4 @ 3'	01/22/21	3 FT	GRAB	SOIL	_	-	-	-	_	5.27	<25.8	<25.8	<25.8	<25.8	<25.8
AH-4 @ 5'	01/22/21	5 FT	GRAB	SOIL	-	-	-	-	-	6.41	<25.3	<25.3	<25.3	<25.3	<25.3
AH-5 @ 1'	01/22/21	1 FT	GRAB	SOIL	0.494	7.60	8.68	27.94	44.714	2.81	1,090	2,450	3,540	335	3,875
AH-5 @ 3'	01/22/21	3 FT	GRAB	SOIL	-	-	-	-	-	13.8	<26.0	<26.0	<26.0	<26.0	<26.0
NMOCD Recomm	nended Reme	ediation Act	ion Level		10	-	-	-	50	20,000	-	-	1,000	-	2,500

Exceeds NMOCD Recommended RAL



## **Chemistry Table 2**

## Confirmation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

## Plains Pipeline, L.P.

## **Hudson Federal 4 Remediation**

	SAMPLE INFORMATION					METHODS:	EPA SW 846-80	021B, 5030		METHOD: E 300		METHOD	S: EPA SW 84	6-8015M	
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 @ 23'	02/03/21	23 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	36.2	<26.0	<26.0	<26.0	<26.0	<26.0
BH-2 @ 17'	02/03/21	17 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	25.1	<25.5	<25.5	<25.5	<25.5	<25.5
BH-3 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	5.87	<26.3	<26.3	<26.3	<26.3	<26.3
BH-4 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	6.15	<26.0	<26.0	<26.0	<26.0	<26.0
BH-5 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	2.18	<26.3	<26.3	<26.3	<26.3	<26.3
BH-6 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	8.45	<26.0	<26.0	<26.0	<26.0	<26.0
BH-7 @ 13'	02/03/21	13 FT	СОМР	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	29.6	<25.8	<25.8	<25.8	<25.8	<25.8
BH-8 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	29.7	<26.0	<26.0	<26.0	<26.0	<26.0
BH-9 @ 13'	02/03/21	13 FT	СОМР	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<1.04	<26.0	<26.0	<26.0	<26.0	<26.0
BH-10 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	12.3	<27.2	<27.2	<27.2	<27.2	<27.2
NW-1 @ 18'	02/03/21	18 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	33.9	<25.5	<25.5	<25.5	<25.5	<25.5
NW-2 @ 11'	02/03/21	11 FT	COMP	SOIL	<0.00102	0.00106	<0.00102	0.00379	0.00485	21.8	<25.5	<25.5	<25.5	<25.5	<25.5
NW-3 @ 6'	02/03/21	6 FT	COMP	SOIL	<0.00100	0.00118	0.00179	0.00829	0.01126	<1.00	<25.0	<25.0	<25.0	<25.0	<25.0
NW-4 @ 1.5'	02/03/21	1.5 FT	COMP	SOIL	<0.00101	0.00208	0.00136	0.00567	0.00911	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
NBF-1 @ 10'	02/03/21	10 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
NBF-2 @ 3'	02/03/21	3 FT	СОМР	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	13.9	<25.3	<25.3	<25.3	<25.3	<25.3
SW-1 @ 18'	02/03/21	18 FT	СОМР	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	23.7	<25.8	<25.8	<25.8	<25.8	<25.8
SW-2 @ 16'	02/03/21	16 FT	СОМР	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	9.05	<25.8	<25.8	<25.8	<25.8	<25.8
SW-3 @ 11'	02/03/21	11 FT	СОМР	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<1.04	<26.0	<26.0	<26.0	<26.0	<26.0
SW-4 @ 8'	02/03/21	8 FT	СОМР	SOIL	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<1.00	<25.0	<25.0	<25.0	<25.0	<25.0
SW-5 @ 2.5'	02/03/21	2.5 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5



## **Chemistry Table 2**

## Confirmation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

## Plains Pipeline, L.P.

## **Hudson Federal 4 Remediation**

	SAMPLE	INFORMA	TION			METHODS:	EPA SW 846-80	21B, 5030		METHOD: E 300		METHOD	S: EPA SW 84	6-8015M	
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)
SBF-1 @ 10'	02/03/21	10 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<1.04	<26.0	<26.0	<26.0	<26.0	<26.0
SBF-2 @ 5'	02/03/21	5 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
SEW-1 @ 16'	02/03/21	16 FT	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	48.8	<25.8	<25.8	<25.8	<25.8	<25.8
SEW-2 @ 15'	02/03/21	15 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
SEBF-1 @ 13'	02/03/21	13 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	9.17	<26.0	<26.0	<26.0	<26.0	<26.0
SEBF-2 @ 11'	02/03/21	11 FT	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<1.03	<25.8	<25.8	<25.8	<25.8	<25.8
SEBF-3 @ 10'	02/03/21	10 FT	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<1.03	<25.8	<25.8	<25.8	<25.8	<25.8
EW-1 @ 18'	02/03/21	18 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	42.2	<25.3	<25.3	<25.3	<25.3	<25.3
EW-2 @ 18'	02/03/21	18 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	37.6	<25.5	<25.5	<25.5	<25.5	<25.5
EW-3 @ 16'	02/03/21	16 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	48.5	<25.5	<25.5	<25.5	<25.5	<25.5
EW-4 @ 11'	02/03/21	11 FT	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<1.03	<25.8	<25.8	<25.8	<25.8	<25.8
EW-5 @ 8'	02/03/21	8 FT	COMP	SOIL	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<1.00	<25.0	<25.0	<25.0	<25.0	<25.0
EW-6 @ 2.5'	02/03/21	2.5 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
EW-7 @ 11'	02/03/21	11 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
EW-8 @ 8'	02/03/21	8 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
EW-9 @ 1.5'	02/03/21	1.5 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
EBF-1 @ 10'	02/03/21	10 FT	COMP	SOIL	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<1.03	<25.8	<25.8	<25.8	<25.8	<25.8
EBF-2 @ 10'	02/03/21	10 FT	COMP	SOIL	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<1.04	<26.0	<26.0	<26.0	<26.0	<26.0
EBF-3 @ 5'	02/03/21	5 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
EBF-4 @ 3'	02/03/21	3 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
WW-1 @ 18'	02/03/21	18 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	69.7	<25.5	<25.5	<25.5	<25.5	<25.5

Received by OCD: 5/20/2021 8:52:42 AM



#### **Chemistry Table 2**

## Confirmation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

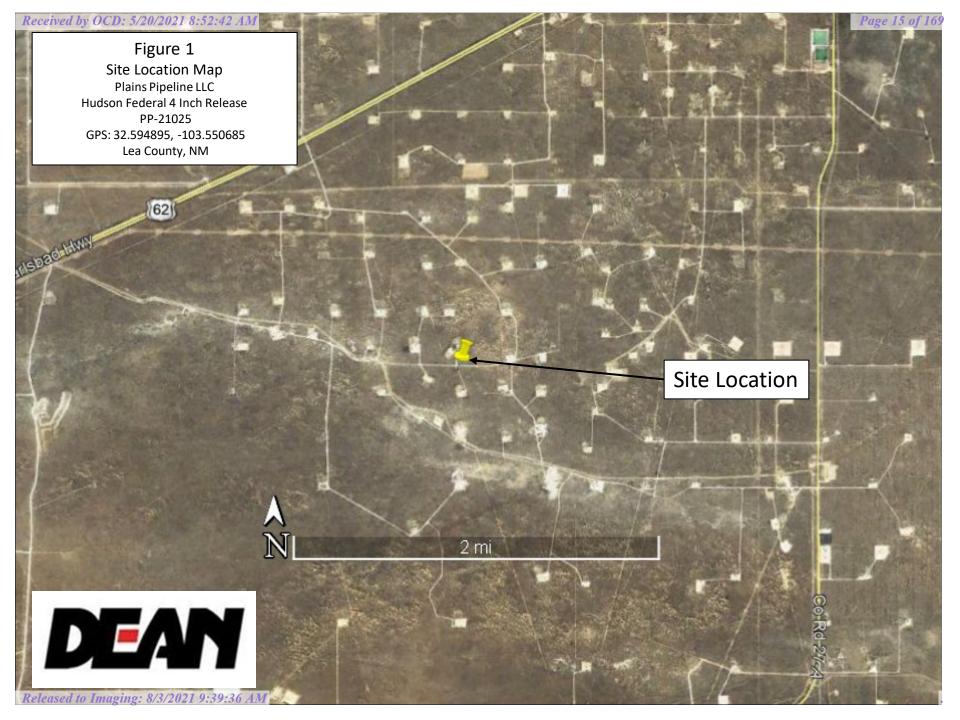
## Plains Pipeline, L.P.

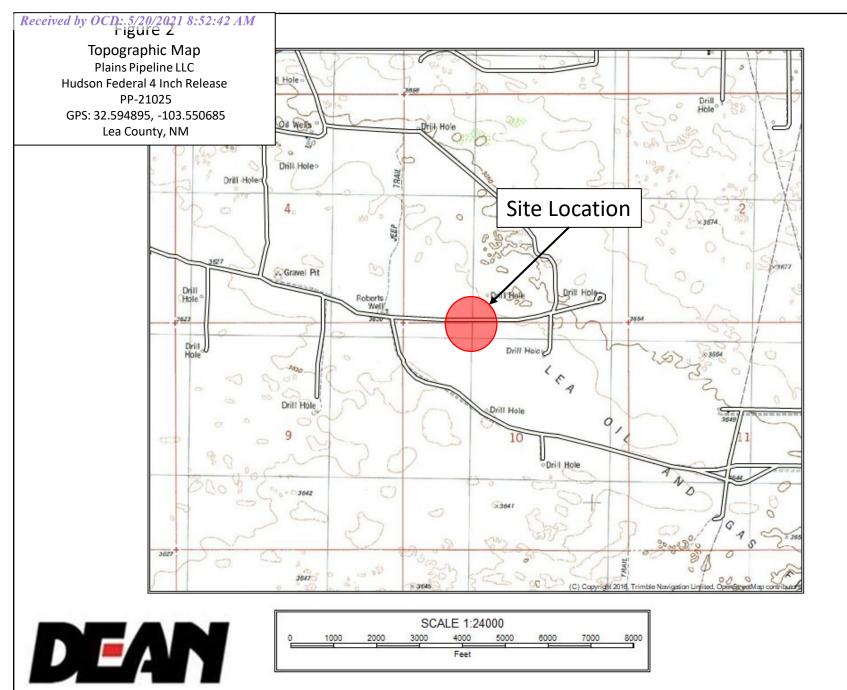
#### **Hudson Federal 4 Remediation**

	SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030				METHOD: E 300	00 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)
WW-2 @ 6'	02/03/21	6 FT	COMP	SOIL	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
WW-3 @ 6'	02/03/21	6 FT	COMP	SOIL	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<1.06	<26.6	<26.6	<26.6	<26.6	<26.6
NMOCD Recommended Remediation Action Level					10	-	-	-	50	600	-	-	-	-	100

Exceeds NMOCD Recommended RAL

# **FIGURES**

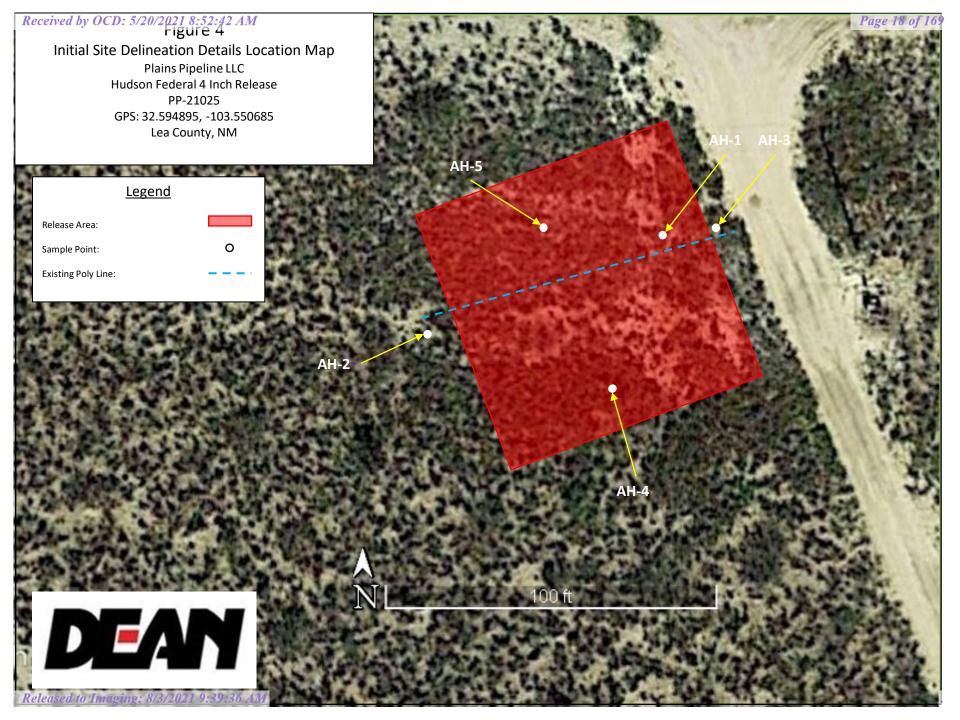


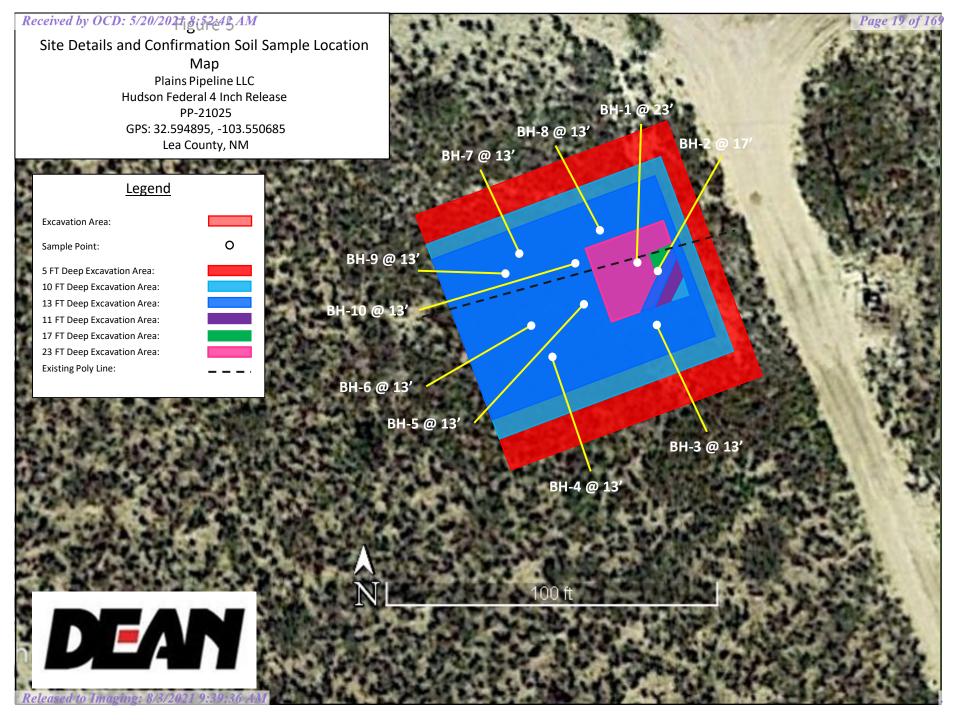


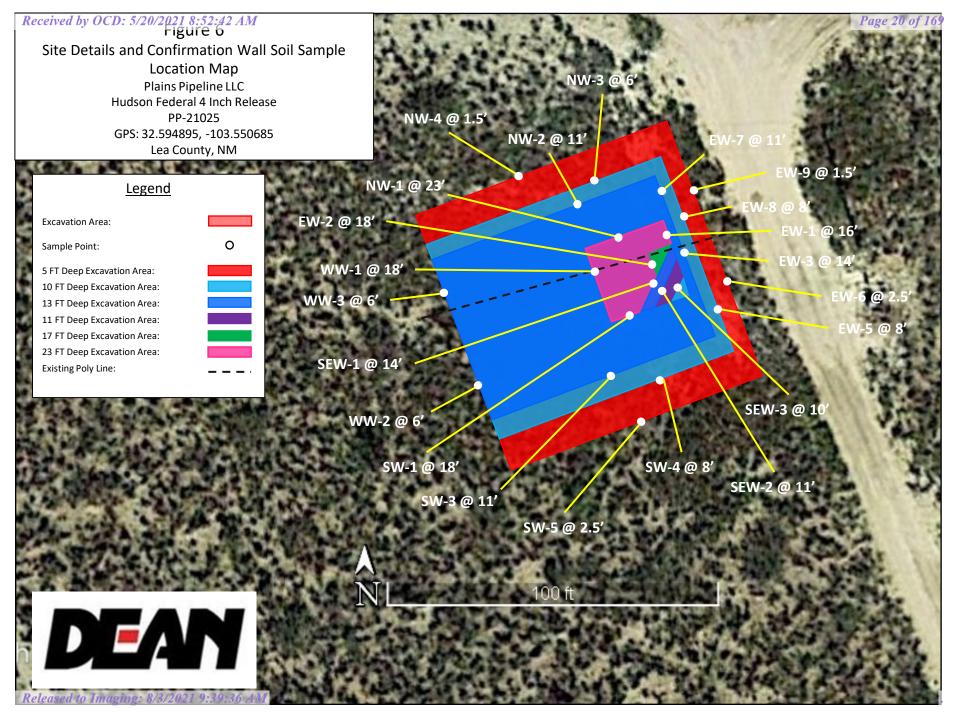
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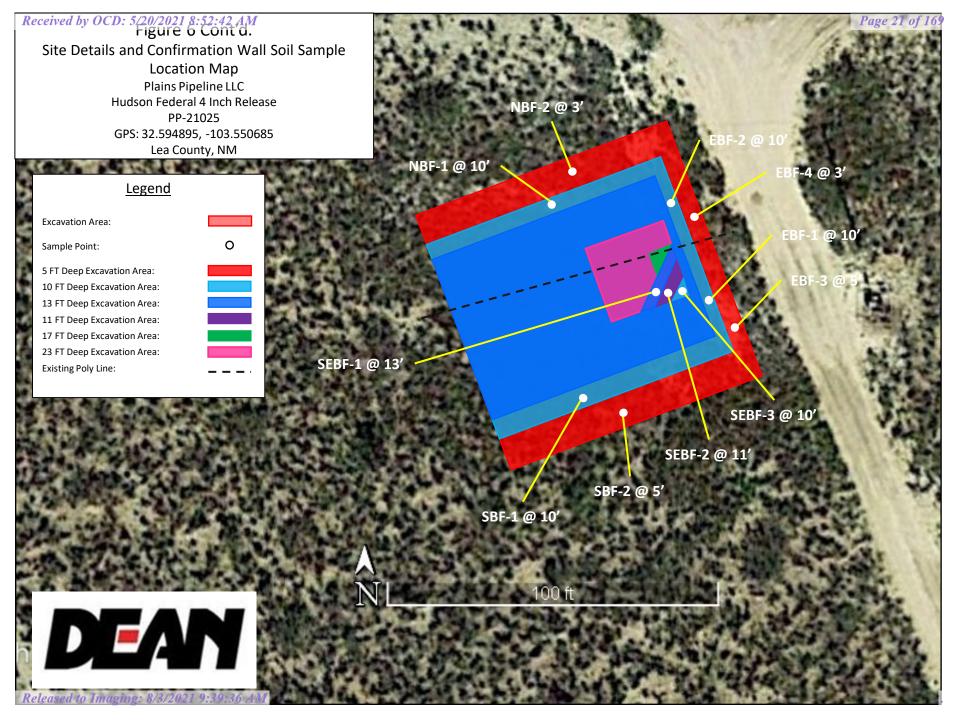
Released to Imaging: 8/3/2021 9:39:36 AM











# APPENDIX A NMOCD C-141 FORMS

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2102629238
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible	Party Plain	s Pipeline, L.P.		OGRID 7	713291					
Contact Nam	e Amber G	roves		Contact Te	Selephone 575-200-5517					
Contact emai	il algroves@	paalp.com		Incident #	Incident # (assigned by OCD)					
Contact mailing address 3112 W. US Hwy 82, Lovington, NM 88260										
			Location	of Release So	ource					
Latitude 32.5	94895		(NAD 83 in dec		Longitude -103.550685  degrees to 5 decimal places)					
Site Name Pl	ains Hudsor	Federal 4"		Site Type	Pipeline					
Date Release	Discovered	1/21/2021		API# (if app	plicable)					
Unit Letter	Section	Township	Range	Coun	nty					
С	10	20S	34E	Lea	a					
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			d (bbls) 8.05 bbls		Volume Recovered (bbls) 6.75 bbls					
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)					
		Is the concentrat	ion of dissolved cl >10,000 mg/l?	hloride in the	☐ Yes ☐ No					
Condensa	te	Volume Release			Volume Recovered (bbls)					
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)					
Other (describe) Volume/Weight Released (provide unit				e units)	Volume/Weight Recovered (provide units)					
Cause of Rele Fusion Failur		ly pipeline.								

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Page 2 Oil Conservation Division

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Incident ID	nAPP2102629238
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?								
19.15.29.7(A) NMAC?									
☐ Yes ⊠ No									
If YES, was immediate no	otice 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 rele	ease has been stopped.								
	s 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	d above have <u>not</u> been undertaken, explain why:								
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.								
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and								
public health or the environr	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have								
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f 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: <u>1/28/2021</u>								
email: <u>algroves@paalp.c</u>	<u>com</u> Telephone: <u>(575)200-5517</u>								
OCD Only									
Received by:	Date:								

## **Amber L Groves**

From: David Guerrero Jr

Sent: Monday, January 25, 2021 8:54 AM

To:Amber L Groves; Camille J Bryant; Jose C DeLaoCc:C. Drew Engstrom; William M Gilliland, Jr.Subject:Hudson Federal 4" Loss Justification

Amount lost for the Hudson Federal 4" release is approximately 8.05bbls of crude.

Majority of this amount is based on the measurements of the release area and the use of Liquid Spill Calculations:

- 1. 35' x 10' x 1" x .015 = 5.25bbls
- 2. 10' x 10' x 1" x .015 = 1.5bbls

The remainder of the amount of release is based on calculations for the saturated soil:

- At an approximate 20% Pore space of soil
  - 1. 35' x 10' x 1" = 1.0bbls
  - 2.  $10' \times 10' \times 1'' = 0.3$ bbls

Thank you,

## DAVID GUERRERO JR

PLAINS ALL AMERICAN DISTRICT MANAGER, PPN (432) 202-9397 | (432) 758-8002 DGUERRERO@PAALP.COM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

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 16081

#### **CONDITIONS OF APPROVAL**

Operator:			OGRID:	Action Number:	Action Type:
PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	34053	16081	C-141

OCD Reviewer	Condition
marcus	None

# APPENDIX B LABORATORY ANALYTICAL REPORTS

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



# Analytical Report

## **Prepared for:**

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

Project: Hudson Federal 4 Remediation

Project Number: PP-21025 Location: Lea County, NM

Lab Order Number: 1A27005



**Current Certification** 

Report Date: 02/05/21

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 1'	1A27005-01	Soil	01/22/21 08:18	01-26-2021 16:30
AH-1 @ 3'	1A27005-02	Soil	01/22/21 08:22	01-26-2021 16:30
AH-1 @ 5'	1A27005-03	Soil	01/22/21 08:25	01-26-2021 16:30
AH-1 @ 7'	1A27005-04	Soil	01/22/21 08:30	01-26-2021 16:30
AH-1 @ 9'	1A27005-05	Soil	01/22/21 08:40	01-26-2021 16:30
AH-1 @ 11'	1A27005-06	Soil	01/22/21 10:10	01-26-2021 16:30
AH-1 @ 13'	1A27005-07	Soil	01/22/21 10:30	01-26-2021 16:30
AH-1 @ 15'	1A27005-08	Soil	01/25/21 08:38	01-26-2021 16:30
AH-3 @ 1'	1A27005-10	Soil	01/22/21 10:38	01-26-2021 16:30
AH-3 @ 3'	1A27005-11	Soil	01/22/21 10:44	01-26-2021 16:30
AH-3 @ 5'	1A27005-12	Soil	01/22/21 10:51	01-26-2021 16:30
AH-2 @ 1'	1A27005-16	Soil	01/22/21 08:58	01-26-2021 16:30
AH-2 @ 3'	1A27005-17	Soil	01/22/21 09:03	01-26-2021 16:30
AH-2 @ 5'	1A27005-18	Soil	01/22/21 09:06	01-26-2021 16:30
AH-4 @ 1'	1A27005-22	Soil	01/25/21 09:03	01-26-2021 16:30
AH-4 @ 3'	1A27005-23	Soil	01/25/21 09:07	01-26-2021 16:30
AH-4 @ 5'	1A27005-24	Soil	01/25/21 09:15	01-26-2021 16:30
AH-5 @ 1'	1A27005-28	Soil	01/25/21 09:52	01-26-2021 16:30
AH-5 @ 5'	1A27005-29	Soil	01/25/21 10:06	01-26-2021 16:30

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 1' 1A27005-01 (Soil)

		Reporting							
Analyte	Result	Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	12.9	0.521 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
Toluene	95.0	0.521 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
Ethylbenzene	82.4	0.521 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
Xylene (p/m)	175	1.04 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
Xylene (o)	49.5	0.521 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.5 %	80-12	20	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.4 %	80-12	20	P1A2705	01/27/21 14:04	01/27/21 21:57	EPA 8021B	
General Chemistry Parameter	rs by EPA/	Standard M	<b>Iethods</b>						
Chloride	99.4	1.04 mg	/kg dry	1	P1A2903	01/29/21 11:28	01/29/21 17:31	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Meth	od 801	5M					
C6-C12	11900	521 mg	/kg dry	20	P1A2703	01/27/21 13:55	01/28/21 13:18	TPH 8015M	
>C12-C28	22300	521 mg	/kg dry	20	P1A2703	01/27/21 13:55	01/28/21 13:18	TPH 8015M	
>C28-C35	4160	521 mg	/kg dry	20	P1A2703	01/27/21 13:55	01/28/21 13:18	TPH 8015M	
Surrogate: 1-Chlorooctane		137 %	70-13	30	P1A2703	01/27/21 13:55	01/28/21 13:18	TPH 8015M	·
Surrogate: o-Terphenyl		134 %	70-13	80	P1A2703	01/27/21 13:55	01/28/21 13:18	TPH 8015M	
Total Petroleum	38400	521 mg	/kg dry	20	[CALC]	01/27/21 13:55	01/28/21 13:18	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 3' 1A27005-02 (Soil)

Analyte	Result	Reporting Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	6.25	0.515 mg	g/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Toluene	53.5	0.515 mg	g/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Ethylbenzene	49.0	0.515 mg	g/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Xylene (p/m)	115	1.03 mg	g/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Xylene (o)	27.3	0.515 mg	g/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		65.9 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:17	EPA 8021B	S-GC
General Chemistry Parameter	s by EPA / S	Standard N	<u> 1ethods</u>	S					
Chloride	48.9	1.03 mg	g/kg dry	1	P1A2903	01/29/21 11:28	01/29/21 18:20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 by	y EPA Met	hod 801	15M					
C6-C12	5730	515 mg	g/kg dry	20	P1A2703	01/27/21 13:55	01/27/21 23:01	TPH 8015M	
>C12-C28	11900	515 mg	g/kg dry	20	P1A2703	01/27/21 13:55	01/27/21 23:01	TPH 8015M	
>C28-C35	2190	515 mg	g/kg dry	20	P1A2703	01/27/21 13:55	01/27/21 23:01	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-1	30	P1A2703	01/27/21 13:55	01/27/21 23:01	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-1	30	P1A2703	01/27/21 13:55	01/27/21 23:01	TPH 8015M	
Total Petroleum	19800	515 mg	g/kg dry	20	[CALC]	01/27/21 13:55	01/27/21 23:01	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 5' 1A27005-03 (Soil)

		Reporting							
Analyte	Result	Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basiı	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	7.38	0.515 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
Toluene	55.1	0.515 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
Ethylbenzene	42.1	0.515 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
Xylene (p/m)	92.0	1.03 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
Xylene (o)	24.2	0.515 mg	/kg dry	500	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.1 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.7 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:38	EPA 8021B	
General Chemistry Parameter	rs by EPA /	Standard M	[ethods	S					
Chloride	7.14	1.03 mg	/kg dry	1	P1A2903	01/29/21 11:28	01/29/21 18:36	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Meth	od 801	15M					
C6-C12	4400	515 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:37	TPH 8015M	
>C12-C28	8710	515 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:37	TPH 8015M	
>C28-C35	1450	515 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:37	TPH 8015M	
Surrogate: 1-Chlorooctane		77.0 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 22:37	TPH 8015M	
Surrogate: o-Terphenyl		85.2 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 22:37	TPH 8015M	
Total Petroleum	14600	515 mg	/kg dry	20	[CALC]	01/28/21 12:50	01/28/21 22:37	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-1 @ 7' 1A27005-04 (Soil)

	_	Reporting							
Analyte	Result	Limit Uı	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	ı Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	10.6	0.106 mg	/kg dry	100	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Toluene	38.8	0.106 mg	/kg dry	100	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Ethylbenzene	34.9	0.106 mg	/kg dry	100	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Xylene (p/m)	54.9	0.213 mg	/kg dry	100	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Xylene (o)	19.5	0.106 mg	/kg dry	100	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		58.5 %	80-1	20	P1A2705	01/27/21 14:04	01/27/21 22:59	EPA 8021B	S-GC
General Chemistry Parameter	rs by EPA/	Standard M	lethods	S					
% Moisture	6.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	ıs C6-C35 b	y EPA Meth	od 801	15M					
C6-C12	9490	532 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:59	TPH 8015M	
>C12-C28	14500	532 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:59	TPH 8015M	
>C28-C35	2410	532 mg	/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 22:59	TPH 8015M	
		88.4 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 22:59	TPH 8015M	
Surrogate: 1-Chlorooctane									
		93.2 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 22:59	TPH 8015M	
Surrogate: 1-Chlorooctane Surrogate: o-Terphenyl Total Petroleum	26400	93.2 % 532 mg	, ,	30 20	P1A2805 [CALC]	01/28/21 12:50 01/28/21 12:50	01/28/21 22:59 01/28/21 22:59	TPH 8015M calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 9' 1A27005-05 (Soil)

		Reporting							
Analyte	Result	Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	13.4	0.109 mg	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Гoluene	42.8	0.109 mg	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Ethylbenzene	39.1	0.109 mg	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Xylene (p/m)	66.9	0.217 mg	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Xylene (o)	22.5	0.109 mg	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.0 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		42.4 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 10:31	EPA 8021B	S-GC
General Chemistry Parameter	rs by EPA/S	Standard M	<b>1ethod</b>	s					
% Moisture	8.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	ıs C6-C35 by	y EPA Metl	hod 801	15M					
C6-C12	16200	543 mg	g/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:22	TPH 8015M	
>C12-C28	21300	543 mg	g/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:22	TPH 8015M	
>C28-C35	3370	543 mg	g/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:22	TPH 8015M	
Surrogate: 1-Chlorooctane		91.4 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 23:22	TPH 8015M	
Surrogate: o-Terphenyl		143 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 23:22	TPH 8015M	S-GC
Total Petroleum	40900	543 mg	g/kg dry	20	[CALC]	01/28/21 12:50	01/28/21 23:22	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-1 @ 11' 1A27005-06 (Soil)

Analyte	Result	Reporting Limit U	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	5.29	0.108 m	ng/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Гoluene	22.1	0.108 m	ng/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Ethylbenzene	20.4	0.108 m	ıg/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Xylene (p/m)	36.8	0.215 m	ıg/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Xylene (o)	13.4	0.108 m	ıg/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.9 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 10:51	EPA 8021B	S-GC
General Chemistry Parameter	s by EPA /	Standard 1	Methods	S					
% Moisture	7.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	thod 801	5M					
C6-C12	4410	538 m	ıg/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:45	TPH 8015M	
>C12-C28	9630	538 m	ıg/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:45	TPH 8015M	
>C28-C35	1680	538 m	ıg/kg dry	20	P1A2805	01/28/21 12:50	01/28/21 23:45	TPH 8015M	
Surrogate: 1-Chlorooctane		70.6 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 23:45	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1	30	P1A2805	01/28/21 12:50	01/28/21 23:45	TPH 8015M	
Total Petroleum	15700	538 m	ıg/kg dry	20	[CALC]	01/28/21 12:50	01/28/21 23:45	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-1 @ 13' 1A27005-07 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	2.02	0.108 m	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
<b>Foluene</b>	5.90	0.108 m	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
Ethylbenzene	15.0	0.108 m	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
Xylene (p/m)	29.8	0.215 m	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
Xylene (o)	8.98	0.108 m	g/kg dry	100	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		71.9 %	80-1	20	P1A2705	01/27/21 14:04	01/28/21 11:12	EPA 8021B	S-GC
General Chemistry Parameter	s by EPA/	Standard I	Method	S					
% Moisture	7.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	15M					
C6-C12	2360	538 m	g/kg dry	20	P1A2805	01/28/21 12:50	01/29/21 00:08	TPH 8015M	
>C12-C28	6490	538 m	g/kg dry	20	P1A2805	01/28/21 12:50	01/29/21 00:08	TPH 8015M	
>C28-C35	1080	538 m	g/kg dry	20	P1A2805	01/28/21 12:50	01/29/21 00:08	TPH 8015M	
Surrogate: 1-Chlorooctane		71.2 %	70-1	30	P1A2805	01/28/21 12:50	01/29/21 00:08	TPH 8015M	
Surrogate: o-Terphenyl		78.4 %	70-1	30	P1A2805	01/28/21 12:50	01/29/21 00:08	TPH 8015M	
Total Petroleum	9930	538 m	g/kg dry	20	[CALC]	01/28/21 12:50	01/29/21 00:08	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-1 @ 15' 1A27005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Pern	nian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.00222	0.00109	mg/kg dry	1	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Toluene	0.00501	0.00109	mg/kg dry	1	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Ethylbenzene	0.00587	0.00109	mg/kg dry	1	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Xylene (p/m)	0.0229	0.00217	mg/kg dry	1	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Xylene (o)	0.00488	0.00109	mg/kg dry	1	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	80-1	120	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	80-1	120	P1A2807	01/28/21 13:45	01/29/21 10:01	EPA 8021B	
General Chemistry Paramete	ers by EPA/	Standard	Method	ls					
% Moisture	8.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Mo	ethod 80	15M					
C6-C12	ND	27.2	mg/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:08	TPH 8015M	
>C12-C28	90.5	27.2	mg/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:08	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:08	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-1	130	P1A2806	01/28/21 13:00	01/28/21 17:08	TPH 8015M	
Surrogate: o-Terphenyl		89.2 %	70-1	130	P1A2806	01/28/21 13:00	01/28/21 17:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	90.5	27.2	mg/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 17:08	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-3 @ 1' 1A27005-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Toluene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Ethylbenzene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Xylene (p/m)	ND	0.00202 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	80-1	20	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.9 %	80-1	20	P1A2807	01/28/21 13:45	01/28/21 17:34	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard	Method	s					
Chloride	1.83	1.01 n	ng/kg dry	1	P1A2903	01/29/21 11:28	01/29/21 20:31	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	15M					
C6-C12	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:54	TPH 8015M	
>C12-C28	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:54	TPH 8015M	
>C28-C35	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 17:54	TPH 8015M	
Surrogate: 1-Chlorooctane		78.8 %	70-1	30	P1A2806	01/28/21 13:00	01/28/21 17:54	TPH 8015M	
Surrogate: o-Terphenyl		82.9 %	70-1	30	P1A2806	01/28/21 13:00	01/28/21 17:54	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 n	ng/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 17:54	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-3 @ 3' 1A27005-11 (Soil)

		Reporting							
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	rs by EPA/	Standard M	<b>1ethods</b>						
Chloride	5.31	1.02 mg	/kg dry	1	P1A2904	01/29/21 11:30	01/29/21 22:09	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	ıs C6-C35 b	y EPA Metl	10d 8015	M					
C6-C12	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:17	TPH 8015M	
>C12-C28	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:17	TPH 8015M	
>C28-C35	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:17	TPH 8015M	
Surrogate: 1-Chlorooctane		79.0 %	70-130	)	P1A2806	01/28/21 13:00	01/28/21 18:17	TPH 8015M	
Surrogate: o-Terphenyl		82.8 %	70-130	)	P1A2806	01/28/21 13:00	01/28/21 18:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 mg	/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 18:17	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-3 @ 5' 1A27005-12 (Soil)

		Reporting							
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Note
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA/	Standard M	<b>Iethods</b>						
Chloride	6.24	1.01 mg	/kg dry	1	P1A2904	01/29/21 11:30	01/29/21 22:58	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	od 8015	M					
C6-C12	ND	25.3 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:41	TPH 8015M	
>C12-C28	ND	25.3 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:41	TPH 8015M	
>C28-C35	ND	25.3 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 18:41	TPH 8015M	
Surrogate: 1-Chlorooctane		79.2 %	70-130		P1A2806	01/28/21 13:00	01/28/21 18:41	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-130		P1A2806	01/28/21 13:00	01/28/21 18:41	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 18:41	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-2 @ 1' 1A27005-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Toluene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Ethylbenzene	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Xylene (p/m)	ND	0.00202 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.4 %	80-1	20	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %	80-1	20	P1A2807	01/28/21 13:45	01/28/21 19:39	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard	Method	s					
Chloride	6.98	1.01 n	ng/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 00:03	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:15	TPH 8015M	
>C12-C28	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:15	TPH 8015M	
>C28-C35	ND	25.3 n	ng/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:15	TPH 8015M	
Surrogate: 1-Chlorooctane		78.7 %	70-1	30	P1A2806	01/28/21 13:00	01/28/21 20:15	TPH 8015M	
Surrogate: o-Terphenyl		82.5 %	70-1	30	P1A2806	01/28/21 13:00	01/28/21 20:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 n	ng/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 20:15	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-2 @ 3' 1A27005-17 (Soil)

		Reporting							
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Note
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA/	Standard M	<b>Iethods</b>						
Chloride	6.04	1.02 mg	/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 00:19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	10d 8015	M					
C6-C12	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:39	TPH 8015M	
>C12-C28	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:39	TPH 8015M	
>C28-C35	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 20:39	TPH 8015M	
Surrogate: 1-Chlorooctane		78.2 %	70-130	1	P1A2806	01/28/21 13:00	01/28/21 20:39	TPH 8015M	
Surrogate: o-Terphenyl		82.0 %	70-130		P1A2806	01/28/21 13:00	01/28/21 20:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 mg	/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 20:39	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 5' 1A27005-18 (Soil)

		Reporting							
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Note
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA /	Standard M	<b>1ethods</b>						
Chloride	6.34	1.02 mg	/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 00:35	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	10d 8015	M					
C6-C12	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 21:50	TPH 8015M	
>C12-C28	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 21:50	TPH 8015M	
>C28-C35	ND	25.5 mg	/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 21:50	TPH 8015M	
Surrogate: 1-Chlorooctane		81.2 %	70-130	)	P1A2806	01/28/21 13:00	01/28/21 21:50	TPH 8015M	
Surrogate: o-Terphenyl		86.3 %	70-130	)	P1A2806	01/28/21 13:00	01/28/21 21:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 mg	/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 21:50	calc	

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

#### AH-4 @ 1' 1A27005-22 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Note
						-	·		
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 mg	g/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Toluene	ND	0.00101 mg	g/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Ethylbenzene	ND	0.00101 mg	g/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Xylene (p/m)	ND	0.00202 mg	g/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-1.	20	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	80-1.	20	P1A2807	01/28/21 13:45	01/28/21 22:26	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	Methods	S					
Chloride	6.51	1.01 mg	g/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 02:46	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:24	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:24	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:24	TPH 8015M	
Surrogate: 1-Chlorooctane		78.5 %	70-1.	30	P1A2806	01/28/21 13:00	01/28/21 23:24	TPH 8015M	
Surrogate: o-Terphenyl		81.9 %	70-1.	30	P1A2806	01/28/21 13:00	01/28/21 23:24	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	01/28/21 13:00	01/28/21 23:24	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-4 @ 3' 1A27005-23 (Soil)

		Reporting							
Analyte	Result	Limit Ur	its Di	lution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basii	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA/	Standard M	ethods						
Chloride	5.27	1.03 mg/	kg dry	1	P1A2904	01/29/21 11:30	01/30/21 03:02	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Meth	od 80151	И					
C6-C12	ND	25.8 mg/	kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:47	TPH 8015M	
>C12-C28	ND	25.8 mg/	kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:47	TPH 8015M	
>C28-C35	ND	25.8 mg/	kg dry	1	P1A2806	01/28/21 13:00	01/28/21 23:47	TPH 8015M	
Surrogate: 1-Chlorooctane		76.2 %	70-130		P1A2806	01/28/21 13:00	01/28/21 23:47	TPH 8015M	
Surrogate: o-Terphenyl		79.8 %	70-130		P1A2806	01/28/21 13:00	01/28/21 23:47	TPH 8015M	
Total Petroleum Hydrocarbon	ND	25.8 mg/	kg dry	1	[CALC]	01/28/21 13:00	01/28/21 23:47	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-4 @ 5' 1A27005-24 (Soil)

		Reporting							
Analyte	Result	Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Note
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA/	Standard M	<b>1ethods</b>						
Chloride	6.41	1.01 mg	g/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 03:18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	nod 8015	M					
C6-C12	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/29/21 00:11	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/29/21 00:11	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P1A2806	01/28/21 13:00	01/29/21 00:11	TPH 8015M	
Surrogate: 1-Chlorooctane		78.8 %	70-130	)	P1A2806	01/28/21 13:00	01/29/21 00:11	TPH 8015M	
Surrogate: o-Terphenyl		82.3 %	70-130	)	P1A2806	01/28/21 13:00	01/29/21 00:11	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	01/28/21 13:00	01/29/21 00:11	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

AH-5 @ 1' 1A27005-28 (Soil)

Analyte	Result	Reporting Limit U	Inits	Dilution	Batch	Prepared	Analyzed	Method	Notes
Timily to	resurt	Ziiiii C		2	24.011	Trepared	. mary zea		
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	0.494	0.102 mg	g/kg dry	100	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Toluene	7.60	0.204 mg	g/kg dry	100	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Ethylbenzene	8.68	0.102 mg	g/kg dry	100	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Xylene (p/m)	22.0	0.204 mg	g/kg dry	100	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Xylene (o)	5.94	0.102 mg	g/kg dry	100	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	80-1	20	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.4 %	80-1	20	P1A2902	01/29/21 11:21	01/29/21 14:09	EPA 8021B	S-GC
General Chemistry Parameter	s by EPA/	Standard N	<b>Aethod</b> :	S					
Chloride	2.81	1.02 mg	g/kg dry	1	P1A2904	01/29/21 11:30	01/30/21 04:23	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	15M					
C6-C12	1090	128 mg	g/kg dry	5	P1A2809	01/28/21 15:49	01/29/21 04:19	TPH 8015M	
>C12-C28	2450	128 mg	g/kg dry	5	P1A2809	01/28/21 15:49	01/29/21 04:19	TPH 8015M	
>C28-C35	335	128 mg	g/kg dry	5	P1A2809	01/28/21 15:49	01/29/21 04:19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-1	30	P1A2809	01/28/21 15:49	01/29/21 04:19	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-1	30	P1A2809	01/28/21 15:49	01/29/21 04:19	TPH 8015M	
Total Petroleum	3880	128 mg	g/kg dry	5	[CALC]	01/28/21 15:49	01/29/21 04:19	calc	
Hydrocarbon C6-C35									

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-5 @ 5' 1A27005-29 (Soil)

		Reporting							
Analyte	Result	Limit Ur	nits D	ilution	Batch	Prepared	Analyzed	Method	Note
			Permia	n Basi	n Environme	ntal Lab, L.P.			
General Chemistry Parameter	s by EPA/	Standard M	ethods						
Chloride	13.8	1.04 mg/	kg dry	1	P1A2904	01/29/21 11:30	01/30/21 04:39	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1A2803	01/28/21 10:50	01/28/21 10:59	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Meth	od 8015	M					
C6-C12	ND	26.0 mg/	kg dry	1	P1A2809	01/28/21 15:49	01/29/21 04:41	TPH 8015M	
>C12-C28	ND	26.0 mg/	kg dry	1	P1A2809	01/28/21 15:49	01/29/21 04:41	TPH 8015M	
>C28-C35	ND	26.0 mg/	kg dry	1	P1A2809	01/28/21 15:49	01/29/21 04:41	TPH 8015M	
Surrogate: 1-Chlorooctane		79.5 %	70-130	1	P1A2809	01/28/21 15:49	01/29/21 04:41	TPH 8015M	
Surrogate: o-Terphenyl		83.8 %	70-130		P1A2809	01/28/21 15:49	01/29/21 04:41	TPH 8015M	
Total Petroleum Hydrocarbon	ND	26.0 mg/	kg dry	1	[CALC]	01/28/21 15:49	01/29/21 04:41	calc	

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

Fax:

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A2705 - General Preparation (GC)										

Blank (P1A2705-BLK1)				Prepared & Anal	yzed: 01/27/21				
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	0.112		"	0.120	93.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120	89.0	80-120			
LCS (P1A2705-BS1)				Prepared & Anal	yzed: 01/27/21				
Benzene	0.105	0.00100	mg/kg wet	0.100	105	70-130			
Toluene	0.107	0.00100	"	0.100	107	70-130			
Ethylbenzene	0.107	0.00100	"	0.100	107	70-130			
Xylene (p/m)	0.236	0.00200	"	0.200	118	70-130			
Xylene (o)	0.110	0.00100	"	0.100	110	70-130			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120	89.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120	97.4	80-120			
LCS Dup (P1A2705-BSD1)				Prepared & Anal	yzed: 01/27/21				
Benzene	0.101	0.00100	mg/kg wet	0.100	101	70-130	4.49	20	
Toluene	0.103	0.00100	"	0.100	103	70-130	3.73	20	
Ethylbenzene	0.106	0.00100	"	0.100	106	70-130	1.66	20	
Xylene (p/m)	0.225	0.00200	"	0.200	113	70-130	4.79	20	
Xylene (o)	0.104	0.00100	"	0.100	104	70-130	5.50	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120	98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120	87.5	80-120			
Calibration Check (P1A2705-CCV1)				Prepared & Anal	yzed: 01/27/21				
Benzene	0.108	0.00100	mg/kg wet	0.100	108	80-120			
Toluene	0.103	0.00100	"	0.100	103	80-120			
Ethylbenzene	0.106	0.00100	"	0.100	106	80-120			
Xylene (p/m)	0.232	0.00200	"	0.200	116	80-120			
Xylene (o)	0.110	0.00100	"	0.100	110	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120	85.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120	92.6	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

Analysta	D a14	Reporting	T.Ta-Sa-	Spike	Source	0/PEC	%REC	DDD	RPD	Not
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2705 - General Preparation (GC)	1									
Calibration Check (P1A2705-CCV2)				Prepared &	Analyzed:	01/27/21				
Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			
Calibration Check (P1A2705-CCV3)				Prepared: (	01/27/21 A	nalyzed: 01	/28/21			
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.1	75-125			
Matrix Spike (P1A2705-MS1)	Sou	ırce: 1A22020	<b>)-01</b>	Prepared: (	01/27/21 A	nalyzed: 01	/28/21			
Benzene	0.0836	0.00109	mg/kg dry	0.109	ND	76.9	80-120			QM-0
Toluene	0.0933	0.00109	"	0.109	ND	85.9	80-120			
Ethylbenzene	0.100	0.00109	"	0.109	ND	92.1	80-120			
Xylene (p/m)	0.196	0.00217	"	0.217	ND	90.2	80-120			
Xylene (o)	0.104	0.00109	"	0.109	ND	95.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.130		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.130		97.2	80-120			
Matrix Spike Dup (P1A2705-MSD1)	Sou	ırce: 1A22020	<b>)-01</b>	Prepared: (	01/27/21 A	nalyzed: 01	/28/21			
Benzene	0.0857	0.00109	mg/kg dry	0.109	ND	78.8	80-120	2.44	20	QM-0
Toluene	0.0947	0.00109	"	0.109	ND	87.1	80-120	1.43	20	
Ethylbenzene	0.0983	0.00109	"	0.109	ND	90.5	80-120	1.84	20	
Xylene (p/m)	0.195	0.00217	"	0.217	ND	89.5	80-120	0.751	20	
Xylene (o)	0.103	0.00109	"	0.109	ND	95.2	80-120	0.252	20	
Surrogate: 1,4-Difluorobenzene	0.132		"	0.130		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.130		98.2	80-120			

Permian Basin Environmental Lab, L.P.

0.105

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2807 - General Preparation (GC)										
Blank (P1A2807-BLK1)				Prepared &	Analyzed:	01/28/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.3	80-120			
LCS (P1A2807-BS1)				Prepared &	Analyzed:	01/28/21				
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.111	0.00100	"	0.100		111	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.239	0.00200	"	0.200		119	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.2	80-120			
LCS Dup (P1A2807-BSD1)				Prepared &	Analyzed:	01/28/21				
Benzene	0.0983	0.00100	mg/kg wet	0.100		98.3	70-130	5.24	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	5.81	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130	2.84	20	
Xylene (p/m)	0.232	0.00200	"	0.200		116	70-130	2.83	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	4.23	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.5	80-120			
Calibration Check (P1A2807-CCV1)				Prepared &	Analyzed:	01/28/21				
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

Permian Basin Environmental Lab, L.P.

Surrogate: 4-Bromofluorobenzene

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.

87.8

75-125

Dean Project: Hudson Federal 4 Remediation

0.117

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2807 - General Preparation (GC)										
Calibration Check (P1A2807-CCV2)				Prepared &	. Analyzed	d: 01/28/21				
Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		115	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	75-125			
Calibration Check (P1A2807-CCV3)				Prepared: 0	01/28/21	Analyzed: 01	/29/21			
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5	75-125			
Matrix Spike (P1A2807-MS1)	Sour	rce: 1A27005	5-10	Prepared: 0	01/28/21	Analyzed: 01	/29/21			
Benzene	0.0874	0.00101	mg/kg dry	0.101	ND	86.6	80-120			
Toluene	0.0868	0.00101	"	0.101	ND	86.0	80-120			
Ethylbenzene	0.0937	0.00101	"	0.101	ND	92.7	80-120			
Xylene (p/m)	0.184	0.00202	"	0.202	ND	91.0	80-120			
Xylene (o)	0.0898	0.00101	"	0.101	ND	88.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.121		91.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.121		94.9	80-120			
Matrix Spike Dup (P1A2807-MSD1)	Soui	rce: 1A27005	5-10	Prepared: 0	01/28/21	Analyzed: 01	/29/21			
Benzene	0.0901	0.00101	mg/kg dry	0.101	ND	89.2	80-120	2.96	20	
Toluene	0.0937	0.00101	"	0.101	ND	92.8	80-120	7.68	20	
Ethylbenzene	0.102	0.00101	"	0.101	ND	101	80-120	8.66	20	
Xylene (p/m)	0.195	0.00202	"	0.202	ND	96.7	80-120	6.04	20	
Vylana (a)	0.0950	0.00101	"	0.101	ND	94.1	80-120	5.67	20	
Xylene (o)		0.000		0.101		,	00 120	2.07	20	

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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96.7

80-120

0.239

0.117

0.118

0.112

0.00200

0.00100

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

RPD

%REC

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

Reporting

Spike

Source

		reporting		F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2902 - General Preparation (C	GC)									
Blank (P1A2902-BLK1)				Prepared &	: Analyzed:	01/29/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
LCS (P1A2902-BS1)				Prepared &	: Analyzed:	01/29/21				
Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.225	0.00200	"	0.200		113	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	80-120			
LCS Dup (P1A2902-BSD1)				Prepared &	: Analyzed:	01/29/21				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130	3.65	20	
Toluene	0.111	0.00200	"	0.100		111	70-130	9.39	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	5.84	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130	4.50	20	
Xylene (o)	0.115	0.00100	"	0.100		115	70-130	5.54	20	
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.7	80-120			
Calibration Check (P1A2902-CCV1)				Prepared &	: Analyzed:	01/29/21				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.109	0.00200	"	0.100		109	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			

Permian Basin Environmental Lab, L.P.

Xylene (p/m)

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

Xylene (o)

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120

117

98.3

93.2

80-120

80-120

75-125

75-125

0.200

0.100

0.120

Dean Project: Hudson Federal 4 Remediation

0.125

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

Analyta	D14	Reporting Limit	T Janida	Spike	Source	%REC	%REC	RPD	RPD Limit	Not
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2902 - General Preparation (C	GC)									
Calibration Check (P1A2902-CCV2)				Prepared &	analyzed:	01/29/21				
Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.110	0.00200	"	0.100		110	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.6	75-125			
Calibration Check (P1A2902-CCV3)				Prepared &	z Analyzed:	01/29/21				
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.113	0.00200	"	0.100		113	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			
Matrix Spike (P1A2902-MS1)	Sou	rce: 1A29011	-01	Prepared &	Analyzed:	01/29/21				
Benzene	0.0838	0.00103	mg/kg dry	0.103	ND	81.3	80-120			
Toluene	0.0811	0.00206	"	0.103	ND	78.7	80-120			QM-07
Ethylbenzene	0.0852	0.00103	"	0.103	ND	82.6	80-120			
Xylene (p/m)	0.165	0.00206	"	0.206	ND	80.1	80-120			
Xylene (o)	0.0791	0.00103	"	0.103	ND	76.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.124		94.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		99.9	80-120			
Matrix Spike Dup (P1A2902-MSD1)	Sou	rce: 1A29011	-01	Prepared &	Analyzed:	01/29/21				
Benzene	0.0877	0.00103	mg/kg dry	0.103	ND	85.0	80-120	4.50	20	
Toluene	0.0841	0.00206	"	0.103	ND	81.6	80-120	3.66	20	
Ethylbenzene	0.0906	0.00103	"	0.103	ND	87.8	80-120	6.11	20	
Xylene (p/m)	0.175	0.00206	"	0.206	ND	84.9	80-120	5.73	20	
Xylene (o)	0.0841	0.00103	"	0.103	ND	81.5	80-120	6.05	20	
Surrogate: 4-Bromofluorobenzene	0.119		"	0.124		95.9	80-120			

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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.

80-120

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Result	70KEC	Lillits	KID	LIIIII	Notes
Batch P1A2803 - *** DEFAULT PREP ***										
Blank (P1A2803-BLK1)				Prepared &	Analyzed:	01/28/21				
% Moisture	ND	0.1	%							
Blank (P1A2803-BLK2)				Prepared &	Analyzed:	01/28/21				
% Moisture	ND	0.1	%							
Blank (P1A2803-BLK3)				Prepared &	Analyzed:	01/28/21				
% Moisture	ND	0.1	%							
Blank (P1A2803-BLK4)				Prepared &	Analyzed:	01/28/21				
% Moisture	ND	0.1	%							
Blank (P1A2803-BLK5)				Prepared &	Analyzed:	01/28/21				
% Moisture	ND	0.1	%							
Duplicate (P1A2803-DUP1)	Sou	rce: 1A26009-	04	Prepared &	Analyzed:	01/28/21				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P1A2803-DUP2)	Sou	rce: 1A27001-	02	Prepared &	Analyzed:	01/28/21				
% Moisture	25.0	0.1	%		24.0			4.08	20	
Duplicate (P1A2803-DUP3)	Sou	rce: 1A27002-	12	Prepared &	Analyzed:	01/28/21				
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P1A2803-DUP4)	Sou	rce: 1A27003-	05	Prepared &	Analyzed:	01/28/21				
% Moisture	15.0	0.1	%		16.0			6.45	20	
Duplicate (P1A2803-DUP5)	Sou	rce: 1A27003-2	20	Prepared &	Analyzed:	01/28/21				
% Moisture	17.0	0.1	%	•	18.0			5.71	20	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2803 - *** DEFAULT PREP ***										
Duplicate (P1A2803-DUP6)	Sou	rce: 1A27004	-10	Prepared &	Analyzed:	: 01/28/21				
% Moisture	18.0	0.1	%		18.0			0.00	20	
Duplicate (P1A2803-DUP7)	Sou	rce: 1A27005	-01	Prepared &	Analyzed:	: 01/28/21				
% Moisture	3.0	0.1	%		4.0			28.6	20	R.
Duplicate (P1A2803-DUP8)	Sou	rce: 1A27005	-11	Prepared &	Analyzed:	: 01/28/21				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P1A2803-DUP9)	Sou	rce: 1A27005	-26	Prepared &	Analyzed:	: 01/28/21				
% Moisture	5.0	0.1	%		4.0			22.2	20	R
Batch P1A2903 - *** DEFAULT PREP ***										
Blank (P1A2903-BLK1)				Prepared &	Analyzed:	: 01/29/21				
Chloride	ND	1.00	mg/kg wet							
LCS (P1A2903-BS1)				Prepared &	Analyzed:	: 01/29/21				
Chloride	383	1.00	mg/kg wet	400		95.6	90-110			
LCS Dup (P1A2903-BSD1)				Prepared &	. Analyzed:	: 01/29/21				
Chloride	384	1.00	mg/kg wet	400		96.1	90-110	0.485	20	
Calibration Check (P1A2903-CCV1)				Prepared &	Analyzed:	: 01/29/21				
Chloride	19.4		mg/kg	20.0		96.9	90-110			
Calibration Check (P1A2903-CCV2)				Prepared &	Analyzed:	: 01/29/21				
Chloride	19.3		mg/kg	20.0		96.6	90-110			

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2903 - *** DEFAULT PREP ***										
Matrix Spike (P1A2903-MS1)	Sour	rce: 1A27003	3-18	Prepared &	& Analyzed:	01/29/21				
Chloride	17200	60.2	mg/kg dry	6020	10800	107	80-120			
Matrix Spike (P1A2903-MS2)	Sour	rce: 1A27005	5-01	Prepared &	& Analyzed:	01/29/21				
Chloride	625	1.04	mg/kg dry	521	99.4	101	80-120			
Matrix Spike Dup (P1A2903-MSD1)	Sour	rce: 1A27003	3-18	Prepared &	& Analyzed:	01/29/21				
Chloride	17000	60.2	mg/kg dry	6020	10800	102	80-120	1.54	20	
Matrix Spike Dup (P1A2903-MSD2)	Sour	rce: 1A27005	5-01	Prepared &	& Analyzed:	01/29/21				
Chloride	580	1.04	mg/kg dry	521	99.4	92.3	80-120	7.41	20	
Batch P1A2904 - *** DEFAULT PREP ***										
Blank (P1A2904-BLK1)				Prepared &	& Analyzed:	01/29/21				
Chloride	ND	1.00	mg/kg wet		-					
LCS (P1A2904-BS1)				Prepared &	& Analyzed:	01/29/21				
Chloride	383	1.00	mg/kg wet	400	-	95.7	90-110			
LCS Dup (P1A2904-BSD1)				Prepared &	& Analyzed:	01/29/21				
Chloride	379	1.00	mg/kg wet	400	•	94.8	90-110	0.950	20	
Calibration Check (P1A2904-CCV1)				Prepared &	& Analyzed:	01/29/21				
Chloride	19.0		mg/kg	20.0		95.0	90-110			
Calibration Check (P1A2904-CCV2)				Prepared:	01/29/21 A	nalyzed: 01	/30/21			
Chloride	19.1		mg/kg	20.0	·	95.3	90-110			

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2904 - *** DEFAULT PREP ***									
Matrix Spike (P1A2904-MS1)	Source	ce: 1A27005-11	Prepared &	& Analyzed:	01/29/21				
Chloride	477	1.02 mg/kg dry	510	5.31	92.4	80-120			
Matrix Spike (P1A2904-MS2)	Source	ce: 1A27005-21	Prepared:	01/29/21 A	nalyzed: 01	/30/21			
Chloride	474	1.05 mg/kg dry	526	6.38	88.8	80-120			
Matrix Spike Dup (P1A2904-MSD1)	Source	ce: 1A27005-11	Prepared &	& Analyzed:	: 01/29/21				
Chloride	469	1.02 mg/kg dry	510	5.31	90.8	80-120	1.72	20	
Matrix Spike Dup (P1A2904-MSD2)	Source	ce: 1A27005-21	Prepared:	01/29/21 A	nalyzed: 01	/30/21			
Chloride	489	1.05 mg/kg dry	526	6.38	91.7	80-120	3.18	20	

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

Batch PIA2703 - TX 1005   Prepared & Analyzed: 01/27/21   Pr	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prepared & Analyzed: 01/27/21   Second Property   Second Propert	,	Kesuit	LIIIII	Ollits	Level	RESUIT	/UKEC	Limits	WLD	Limit	notes
ND   25.0   mg/kg wet	Batch P1A2703 - TX 1005										
ND   25.0   "	Blank (P1A2703-BLK1)				Prepared &	Analyzed:	01/27/21				
ND   25.0   "	C6-C12	ND	25.0	mg/kg wet							
Surrogate: I-Chlorooctane   107	>C12-C28	ND	25.0	"							
Surrogate: o-Terphenyl   60.8   " 50.0   122   70-130	>C28-C35	ND	25.0	"							
LCS (PIA2703-BS1)   Prepared & Analyzed: 01/27/21	Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
C6-C12	Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			
Calibration Check (P1A2703-CCV1)   Prepared & Analyzed: 01/27/21   Calibration Check (P1A2703-CCV2)   Surrogate: 0-120	LCS (P1A2703-BS1)				Prepared &	Analyzed:	01/27/21				
Surrogate: I-Chlorooctane	C6-C12	975	25.0	mg/kg wet	1000		97.5	75-125			
Surrogate: o-Terphenyl   60.9   "   50.0   122   70-130	>C12-C28	1080	25.0	"	1000		108	75-125			
Prepared & Analyzed: 01/27/21   C6-C12   968   25.0 mg/kg wet   1000   96.8   75-125   0.714   20	Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
C6-C12	Surrogate: o-Terphenyl	60.9		"	50.0		122	70-130			
Name	LCS Dup (P1A2703-BSD1)				Prepared &	Analyzed:	01/27/21				
Surrogate: 1-Chlorooctane         114         " 100         114         70-130           Surrogate: o-Terphenyl         60.5         " 50.0         121         70-130           Calibration Check (P1A2703-CCV1)         Prepared & Analyzed: 01/27/21           C6-C12         483         25.0 mg/kg wet         500         96.6         85-115           >C12-C28         536         25.0 " 500         107         85-115           Surrogate: 1-Chlorooctane         117         " 100         117         70-130           Surrogate: o-Terphenyl         58.1         " 50.0         116         70-130           Calibration Check (P1A2703-CCV2)         Prepared & Analyzed: 01/27/21           C6-C12         463         25.0 mg/kg wet         500         92.6         85-115           >C12-C28         501         25.0 " 500         100         85-115           Surrogate: 1-Chlorooctane         113         " 100         113         70-130	C6-C12	968	25.0	mg/kg wet	1000		96.8	75-125	0.714	20	
Surrogate: o-Terphenyl         60.5         " 50.0         121         70-130           Calibration Check (P1A2703-CCV1)         Prepared & Analyzed: 01/27/21           C6-C12         483         25.0 mg/kg wet         500         96.6         85-115           >C12-C28         536         25.0 "         500         107         85-115           Surrogate: I-Chlorooctane         117         " 100         117         70-130           Surrogate: o-Terphenyl         58.1         " 50.0         116         70-130           Calibration Check (P1A2703-CCV2)         Prepared & Analyzed: 01/27/21           C6-C12         463         25.0 mg/kg wet         500         92.6         85-115           >C12-C28         501         25.0 "         500         100         85-115           Surrogate: 1-Chlorooctane         113         " 100         113         70-130	>C12-C28	1060	25.0	"	1000		106	75-125	1.84	20	
Calibration Check (P1A2703-CCV1)         Prepared & Analyzed: 01/27/21           C6-C12         483         25.0 mg/kg wet         500         96.6         85-115           >C12-C28         536         25.0 "         500         107         85-115           Surrogate: I-Chlorooctane         117         "         100         117         70-130           Surrogate: o-Terphenyl         58.1         "         50.0         116         70-130           Calibration Check (P1A2703-CCV2)         Prepared & Analyzed: 01/27/21           C6-C12         463         25.0 mg/kg wet         500         92.6         85-115           >C12-C28         501         25.0 "         500         100         85-115           Surrogate: 1-Chlorooctane         113         "         100         113         70-130	Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
C6-C12	Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			
>C12-C28       536       25.0       "       500       107       85-115         Surrogate: I-Chlorooctane       117       "       100       117       70-130         Surrogate: o-Terphenyl       58.1       "       50.0       116       70-130         Calibration Check (P1A2703-CCV2)       Prepared & Analyzed: 01/27/21         C6-C12       463       25.0       mg/kg wet       500       92.6       85-115         >C12-C28       501       25.0       "       500       100       85-115         Surrogate: 1-Chlorooctane       113       "       100       113       70-130	Calibration Check (P1A2703-CCV1)				Prepared &	Analyzed:	01/27/21				
Surrogate: 1-Chlorooctane	C6-C12	483	25.0	mg/kg wet	500		96.6	85-115			
Surrogate: o-Terphenyl     58.1     " 50.0     116     70-130       Calibration Check (P1A2703-CCV2)     Prepared & Analyzed: 01/27/21       C6-C12     463     25.0 mg/kg wet     500     92.6     85-115       >C12-C28     501     25.0 "     500     100     85-115       Surrogate: 1-Chlorooctane     113     " 100     113     70-130	>C12-C28	536	25.0	"	500		107	85-115			
Calibration Check (P1A2703-CCV2)         Prepared & Analyzed: 01/27/21           C6-C12         463         25.0 mg/kg wet         500         92.6         85-115           >C12-C28         501         25.0 "         500         100         85-115           Surrogate: 1-Chlorooctane         113         "         100         113         70-130	Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
C6-C12     463     25.0 mg/kg wet     500     92.6     85-115       >C12-C28     501     25.0 "     500     100     85-115       Surrogate: 1-Chlorooctane     113     "     100     113     70-130	Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			
>C12-C28 501 25.0 " 500 100 85-115 Surrogate: I-Chlorooctane 113 " 100 113 70-130	Calibration Check (P1A2703-CCV2)				Prepared &	Analyzed:	01/27/21				
Surrogate: 1-Chlorooctane 113 " 100 113 70-130	C6-C12	463	25.0	mg/kg wet	500	-	92.6	85-115			
Surrogate. 1-Chioroociane 113 100 113 70-130	>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: o-Terphenyl 56.1 " 50.0 112 70-130	Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
	Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

	-	Reporting	** .	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2703 - TX 1005										
Matrix Spike (P1A2703-MS1)	Source	e: 1A26011	-03	Prepared: (	01/27/21 A	nalyzed: 01	/28/21			
C6-C12	1990	147	mg/kg dry	1180	250	148	75-125			QM-0
>C12-C28	7290	147	"	1180	2490	408	75-125			QM-0
Surrogate: 1-Chlorooctane	108		"	118		92.1	70-130			
Surrogate: o-Terphenyl	64.8		"	58.8		110	70-130			
Matrix Spike Dup (P1A2703-MSD1)	Source	e: 1A26011	-03	Prepared: (	01/27/21 A	nalyzed: 01	/28/21			
C6-C12	2270	147	mg/kg dry	1180	250	172	75-125	14.8	20	QM-0
>C12-C28	7910	147	"	1180	2490	461	75-125	12.2	20	QM-0
Surrogate: 1-Chlorooctane	112		"	118		94.9	70-130			
Surrogate: o-Terphenyl	65.4		"	58.8		111	70-130			
Batch P1A2805 - TX 1005										
Blank (P1A2805-BLK1)				Prepared &	& Analyzed:	01/28/21				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	77.2		"	100		77.2	70-130			
Surrogate: o-Terphenyl	39.2		"	50.0		78.4	70-130			
LCS (P1A2805-BS1)				Prepared &	& Analyzed:	01/28/21				
C6-C12	1140	25.0	mg/kg wet	1000		114	75-125			
>C12-C28	1220	25.0	"	1000		122	75-125			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.4	70-130			
LCS Dup (P1A2805-BSD1)				Prepared &	& Analyzed:	01/28/21				
C6-C12	1120	25.0	mg/kg wet	1000		112	75-125	2.07	20	
>C12-C28	1240	25.0	"	1000		124	75-125	2.20	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.2	70-130			

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2805 - TX 1005										
Calibration Check (P1A2805-CCV1)				Prepared &	& Analyzed:	01/28/21				
C6-C12	524	25.0	mg/kg wet	500		105	85-115			
>C12-C28	557	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	91.9		"	100		91.9	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.9	70-130			
Calibration Check (P1A2805-CCV2)				Prepared &	& Analyzed:	01/28/21				
C6-C12	491	25.0	mg/kg wet	500		98.3	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	79.3		"	100		79.3	70-130			
Surrogate: o-Terphenyl	35.2		"	50.0		70.4	70-130			
Matrix Spike (P1A2805-MS1)	Sou	rce: 1A27002	2-06	Prepared: (	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	1070	28.1	mg/kg dry	1120	ND	95.4	75-125			
>C12-C28	1340	28.1	"	1120	38.2	116	75-125			
Surrogate: 1-Chlorooctane	110		"	112		97.6	70-130			
Surrogate: o-Terphenyl	44.0		"	56.2		78.2	70-130			
Matrix Spike Dup (P1A2805-MSD1)	Sou	rce: 1A27002	2-06	Prepared: (	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	1090	28.1	mg/kg dry	1120	ND	97.4	75-125	2.01	20	
>C12-C28	1290	28.1	"	1120	38.2	111	75-125	3.93	20	
Surrogate: 1-Chlorooctane	98.1		"	112		87.3	70-130			
Surrogate: o-Terphenyl	41.5		"	56.2		73.8	70-130			
Batch P1A2806 - TX 1005										
Blank (P1A2806-BLK1)				Prepared &	& Analyzed:	01/28/21				
C6-C12	ND	25.0	mg/kg wet		-					
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	77.2		"	100		77.2	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.4	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2806 - TX 1005										
LCS (P1A2806-BS1)				Prepared &	Analyzed:	01/28/21				
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125			
>C12-C28	1220	25.0	"	1000		122	75-125			
Surrogate: 1-Chlorooctane	91.3		"	100		91.3	70-130			
Surrogate: o-Terphenyl	40.9		"	50.0		81.7	70-130			
LCS Dup (P1A2806-BSD1)				Prepared &	z Analyzed:	01/28/21				
C6-C12	1080	25.0	mg/kg wet	1000		108	75-125	1.60	20	·
>C12-C28	1210	25.0	"	1000		121	75-125	0.854	20	
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	40.1		"	50.0		80.3	70-130			
Calibration Check (P1A2806-CCV1)				Prepared &	Analyzed:	01/28/21				
C6-C12	561	25.0	mg/kg wet	500		112	85-115			
>C12-C28	538	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	83.0		"	100		83.0	70-130			
Surrogate: o-Terphenyl	40.6		"	50.0		81.3	70-130			
Calibration Check (P1A2806-CCV2)				Prepared &	Analyzed:	01/28/21				
C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	74.0		"	100		74.0	70-130			
Surrogate: o-Terphenyl	36.6		"	50.0		73.2	70-130			
Calibration Check (P1A2806-CCV3)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	528	25.0	mg/kg wet	500		106	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	75.9		"	100		75.9	70-130			
Surrogate: o-Terphenyl	37.2		"	50.0		74.4	70-130			

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2806 - TX 1005										
Matrix Spike (P1A2806-MS1)	Source	e: 1A27005	5-27	Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1020	26.6	mg/kg dry	1060	13.8	94.8	75-125			
>C12-C28	1130	26.6	"	1060	ND	107	75-125			
Surrogate: 1-Chlorooctane	89.1		"	106		83.7	70-130			
Surrogate: o-Terphenyl	40.6		"	53.2		76.4	70-130			
Matrix Spike Dup (P1A2806-MSD1)	Source	ce: 1A27005	5-27	Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1040	26.6	mg/kg dry	1060	13.8	96.2	75-125	1.41	20	
>C12-C28	1150	26.6	"	1060	ND	108	75-125	1.10	20	
Surrogate: 1-Chlorooctane	91.1		"	106		85.7	70-130			
Surrogate: o-Terphenyl	41.0		"	53.2		77.1	70-130			
Batch P1A2809 - TX 1005										
Blank (P1A2809-BLK1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	78.9		"	100		78.9	70-130			
Surrogate: o-Terphenyl	42.1		"	50.0		84.2	70-130			
LCS (P1A2809-BS1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1060	25.0	mg/kg wet	1000		106	75-125			
>C12-C28	1240	25.0	"	1000		124	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.6	70-130			
LCS Dup (P1A2809-BSD1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125	2.84	20	
>C12-C28	1200	25.0	"	1000		120	75-125	3.32	20	
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	39.7		"	50.0		79.5	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1A2809 - TX 1005										
Calibration Check (P1A2809-CCV1)				Prepared:	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	504	25.0	mg/kg wet	500		101	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	82.1		"	100		82.1	70-130			
Surrogate: o-Terphenyl	39.0		"	50.0		78.0	70-130			
Calibration Check (P1A2809-CCV2)				Prepared:	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	539	25.0	mg/kg wet	500		108	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	91.7		"	100		91.7	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			
Calibration Check (P1A2809-CCV3)				Prepared:	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	573	25.0	mg/kg wet	500		115	85-115			
>C12-C28	538	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	90.8		"	100		90.8	70-130			
Surrogate: o-Terphenyl	40.3		"	50.0		80.6	70-130			
Matrix Spike (P1A2809-MS1)	Sou	rce: 1A28009	0-02	Prepared:	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	1320	28.7	mg/kg dry	1150	ND	114	75-125			
>C12-C28	1640	28.7	"	1150	ND	143	75-125			QM-05
Surrogate: 1-Chlorooctane	136		"	115		119	70-130			
Surrogate: o-Terphenyl	52.7		"	57.5		91.7	70-130			
Matrix Spike Dup (P1A2809-MSD1)	Sou	rce: 1A28009	0-02	Prepared:	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	1290	28.7	mg/kg dry	1150	ND	112	75-125	1.69	20	
>C12-C28	1570	28.7	"	1150	ND	137	75-125	4.38	20	QM-05
Surrogate: 1-Chlorooctane	131		"	115		114	70-130			
Surrogate: o-Terphenyl	50.2		"	57.5		87.4	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

#### **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

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

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

recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Pate: 2/5/2021

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

Permian Basin Environmental Lab, L.P.

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901 2: 00				HNOs 250 ml Poly HC1 H <sub>2</sub> SO <sub>4</sub> NaOH	ieintindley@deanequis.com kaylanlondee@deanequis.com Preservation &# of Contains</td><td>sylwiarevnolds@deandks.com</td><td></td><td>in Environmen I Hwy Kas 79701</td></tr><tr><td>5   3</td><td>5 See</td><td>2</td><td>\$ \ \{\bar{\chi}\}</td><td>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> None 1L Poly NaOH/ZnAc  OW=Drinking Weter SL=</td><td>Chillia II II</td><td></td><td></td><td>ronmental lab, LP 7701</td></tr><tr><td>Time</td><td></td><td></td><td></td><td>TPH TX1005 EXT (</td><td>iy Cuhar   元 TEXAS)  </td><td>Report Format: elizabeihsi Stew Caru</td><td>Project #: Project Loc:</td><td>Project Name:</td></tr><tr><td>Laboratory Comments: Sample Containers infact? VOGs Free of Headspace? Latigis on confairer(s) Custody seals on container(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS Temperature Upon Receipt: Received: 3.9 °C Fac</td><td><<</td><td></td><td></td><td>TCLP BENZENE (CHLORIDES) TCLP METALS NORM</td><td></td><td>ort Format: X Standard 1 7 elizabethstuart@deandius.com Stand Car proving Code groups for: Analyza For:</td><td>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</td><td>I</td></tr><tr><td>oratory Commonts: pie Containers infact? pie Containers infact? rs Free of Headspace? els on container(s) rody seals on container(s) pole Hand Delivered by Sampler/Client Rep. ? py Courier? ups DHL pperature Upon Receipt: perature Upon Receipt:</td><td></td><td></td><td></td><td>PAINT FILTER TOX RCI pH</td><td>111 0</td><td>73</td><td>0 25 0 25</td><td>Phone: 432-686-7235</td></tr><tr><td>が</td><td></td><td></td><td></td><td>TPH 8015 M (NEV</td><td>W MERGCO)</td><td>Algrown Couch p. wm</td><td>New Mexico</td><td>233</td></tr><tr><td>Released to Imaging: 8/3/20</td><td>021 0-20-2</td><td>26.4M</td><td></td><td>7 Day Tat</td><td></td><td>NPDES NPDES</td><td>1 1 <u>1.</u></td><td>age 41 of 43</td></tr></tbody></table>			

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



## Analytical Report

#### **Prepared for:**

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

Project: Hudson Federal Project Number: PP-21025 Location: Lea County, TX

Lab Order Number: 1A28006



NELAP/TCEQ # T104704516-17-8

Report Date: 01/29/21

Dean Project: Hudson Federal Fax:

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 21'	1A28006-01	Soil	01/27/21 08:24	01-28-2021 14:00
AH-1 @ 23'	1A28006-02	Soil	01/27/21 08:40	01-28-2021 14:00
AH-1 @ 25'	1A28006-03	Soil	01/27/21 09:38	01-28-2021 14:00

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

#### AH-1 @ 21' 1A28006-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	D.	·			. D				
	Perm	ian Basin E	Environmen	tal Lab,	L.P.				
<b>General Chemistry Parameters by EF</b>	PA / Standard Methods	5							
% Moisture	7.0	0.1	%	1	P1A2901	01/29/21	01/29/21	ASTM D2216	
<b>Total Petroleum Hydrocarbons C6-C3</b>	35 by EPA Method 801	15M							
C6-C12	6550	269	mg/kg dry	10	P1A2809	01/28/21	01/29/21	TPH 8015M	
>C12-C28	7780	269	mg/kg dry	10	P1A2809	01/28/21	01/29/21	TPH 8015M	
>C28-C35	1260	269	mg/kg dry	10	P1A2809	01/28/21	01/29/21	TPH 8015M	
Surrogate: 1-Chlorooctane		72.6 %	70-13	20	P1A2809	01/28/21	01/29/21	TPH 8015M	
Surrogate: o-Terphenyl		75.6 %	70-13	20	P1A2809	01/28/21	01/29/21	TPH 8015M	
<b>Total Petroleum Hydrocarbon</b>	15600	269	mg/kg dry	10	[CALC]	01/28/21	01/29/21	calc	
C6-C35									

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 23' 1A28006-02 (Soil)

									1
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods											
% Moisture	16.0	0.1	%	1	P1A2901	01/29/21	01/29/21	ASTM D2216			
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 801	5M									
C6-C12	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
>C12-C28	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
>C28-C35	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
Surrogate: 1-Chlorooctane		78.5 %	70-130		P1A2809	01/28/21	01/29/21	TPH 8015M			
Surrogate: o-Terphenyl		84.4 %	70-130		P1A2809	01/28/21	01/29/21	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	01/28/21	01/29/21	calc			

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 25' 1A28006-03 (Soil)

									1
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods											
% Moisture	16.0	0.1	%	1	P1A2901	01/29/21	01/29/21	ASTM D2216			
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 801	5M									
C6-C12	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
>C12-C28	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
>C28-C35	ND	29.8	mg/kg dry	1	P1A2809	01/28/21	01/29/21	TPH 8015M			
Surrogate: 1-Chlorooctane		82.6 %	70-130		P1A2809	01/28/21	01/29/21	TPH 8015M			
Surrogate: o-Terphenyl		87.2 %	70-130		P1A2809	01/28/21	01/29/21	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	01/28/21	01/29/21	calc			

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

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

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

Batch P1A2901 - \*\*\* DEFAULT PREP \*\*\*

 Blank (P1A2901-BLK1)
 Prepared & Analyzed: 01/29/21

 % Moisture
 ND
 0.1
 %

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A2809 - TX 1005	·			<u> </u>			· · ·			
Blank (P1A2809-BLK1)				Prenared: (	01/28/21 At	nalyzed: 01	/29/21			
C6-C12	ND	25.0	mg/kg wet	Trepureu.	J1720721 71	naryzea. 01	729721			
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	78.9		"	100		78.9	70-130			
Surrogate: o-Terphenyl	42.1		"	50.0		84.2	70-130			
LCS (P1A2809-BS1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1060	25.0	mg/kg wet	1000		106	75-125			
>C12-C28	1240	25.0	"	1000		124	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.6	70-130			
LCS Dup (P1A2809-BSD1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125	2.84	20	
>C12-C28	1200	25.0	"	1000		120	75-125	3.32	20	
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	39.7		"	50.0		79.5	70-130			
Calibration Check (P1A2809-CCV1)				Prepared: (	01/28/21 Aı	nalyzed: 01	/29/21			
C6-C12	504	25.0	mg/kg wet	500		101	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	82.1		"	100		82.1	70-130			
Surrogate: o-Terphenyl	39.0		"	50.0		78.0	70-130			
Calibration Check (P1A2809-CCV2)				Prepared: (	01/28/21 A	nalyzed: 01	/29/21			
C6-C12	539	25.0	mg/kg wet	500		108	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	91.7		"	100		91.7	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			

Permian Basin Environmental Lab, L.P.

Dean	Project: Hudson Federal	Fax:
12600 W County Rd 91	Project Number: PP-21025	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

#### **Notes and Definitions**

ROI	Received on Ice
BULK	Samples received in Bulk soil containers

-

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Dien	E COUNTY C		
Report Approved By:			Date:	1/29/2021

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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



## Analytical Report

#### **Prepared for:**

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

Project: Hudson Federal 4 Remediation
Project Number: PP-21025

Location: Lea County, New Mexico

Lab Order Number: 1B03011



**Current Certification** 

Report Date: 02/05/21

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 23'	1B03011-01	Soil	02/03/21 08:02	02-03-2021 15:15
BH-2 @ 17'	1B03011-02	Soil	02/03/21 08:22	02-03-2021 15:15
NW-1 @ 18'	1B03011-03	Soil	02/03/21 08:08	02-03-2021 15:15
SW-1 @ 18'	1B03011-04	Soil	02/03/21 08:12	02-03-2021 15:15
SW-2 @ 16'	1B03011-05	Soil	02/03/21 08:18	02-03-2021 15:15
SEW-1 @ 16'	1B03011-06	Soil	02/03/21 08:25	02-03-2021 15:15
EW-1 @ 18'	1B03011-07	Soil	02/03/21 08:00	02-03-2021 15:15
EW-2 @ 18'	1B03011-08	Soil	02/03/21 08:16	02-03-2021 15:15
EW-3 @ 16'	1B03011-09	Soil	02/03/21 08:28	02-03-2021 15:15
WW-1 @ 18'	1B03011-10	Soil	02/03/21 08:30	02-03-2021 15:15

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

BH-1 @ 23' 1B03011-01 (Soil)

Analyte	Result	Reporting Limit U	nits Di	lution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Toluene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Ethylbenzene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Xylene (p/m)	ND	0.00208 mg	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Xylene (o)	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-120		P1B0405	02/04/21 13:05	02/04/21 16:34	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA/	Standard N	<b>1ethods</b>						
Chloride	36.2	1.04 mg	g/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 18:27	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 80151	М					
C6-C12	ND	26.0 mg	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 01:42	TPH 8015M	
>C12-C28	ND	26.0 mg	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 01:42	TPH 8015M	
>C28-C35	ND	26.0 mg	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 01:42	TPH 8015M	
Surrogate: 1-Chlorooctane		80.7 %	70-130		P1B0309	02/03/21 15:23	02/04/21 01:42	TPH 8015M	
Surrogate: o-Terphenyl		86.2 %	70-130		P1B0309	02/03/21 15:23	02/04/21 01:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 mg	g/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 01:42	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-2 @ 17' 1B03011-02 (Soil)

Analyte	Result	Reporting Limit 1	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ıg/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Toluene	ND	0.00102 m	ıg/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Ethylbenzene	ND	0.00102 m	ıg/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Xylene (o)	ND	0.00102 m	ıg/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 16:55	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard 1	Method	S					
Chloride	25.1	1.02 m	ıg/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 19:16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	thod 801	15M					
C6-C12	ND	25.5 m	ıg/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:05	TPH 8015M	
>C12-C28	ND	25.5 m	ıg/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:05	TPH 8015M	
>C28-C35	ND	25.5 m	ıg/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:05	TPH 8015M	
Surrogate: 1-Chlorooctane		80.6 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 02:05	TPH 8015M	
Surrogate: o-Terphenyl		87.3 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 02:05	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 02:05	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

NW-1 @ 18' 1B03011-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Toluene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Ethylbenzene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Xylene (o)	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 17:16	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard 1	Method	s					
Chloride	33.9	1.02 m	ng/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 19:32	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	15M					
C6-C12	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:28	TPH 8015M	
>C12-C28	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:28	TPH 8015M	
>C28-C35	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:28	TPH 8015M	
Surrogate: 1-Chlorooctane		83.2 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 02:28	TPH 8015M	
Surrogate: o-Terphenyl		90.6 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 02:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 02:28	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SW-1 @ 18' 1B03011-04 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Toluene	ND	0.00103 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Ethylbenzene	ND	0.00103 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Xylene (p/m)	ND	0.00206 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Xylene (o)	ND	0.00103 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 17:36	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard I	Methods	i					
Chloride	23.7	1.03 m	g/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 19:49	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	25.8 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:51	TPH 8015M	
>C12-C28	ND	25.8 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:51	TPH 8015M	
>C28-C35	ND	25.8 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 02:51	TPH 8015M	
Surrogate: 1-Chlorooctane		80.9 %	70-13	30	P1B0309	02/03/21 15:23	02/04/21 02:51	TPH 8015M	
Surrogate: o-Terphenyl		88.3 %	70-13	30	P1B0309	02/03/21 15:23	02/04/21 02:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 m	g/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 02:51	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SW-2 @ 16' 1B03011-05 (Soil)

Analyte	Result	Reporting Limit 1	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Toluene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Ethylbenzene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Xylene (p/m)	ND	0.00206 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Xylene (o)	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 17:57	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA/	Standard 1	Method	s					
Chloride	9.05	1.03 m	ng/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 20:05	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	thod 801	15M					
C6-C12	ND	25.8 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:15	TPH 8015M	
>C12-C28	ND	25.8 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:15	TPH 8015M	
>C28-C35	ND	25.8 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:15	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 03:15	TPH 8015M	-
Surrogate: o-Terphenyl		92.4 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 03:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 m	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 03:15	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SEW-1 @ 16' 1B03011-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	iian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Toluene	ND	0.00103 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Ethylbenzene	ND	0.00103 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Xylene (p/m)	ND	0.00206 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Xylene (o)	ND	0.00103 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-1	20	P1B0405	02/04/21 13:05	02/04/21 18:18	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	s					
Chloride	48.8	1.03 n	ng/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 20:21	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.8 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:38	TPH 8015M	
>C12-C28	ND	25.8 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:38	TPH 8015M	
>C28-C35	ND	25.8 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 03:38	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 03:38	TPH 8015M	
Surrogate: o-Terphenyl		91.7 %	70-1	30	P1B0309	02/03/21 15:23	02/04/21 03:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 n	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 03:38	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-1 @ 18' 1B03011-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basiı	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Toluene	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Ethylbenzene	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Xylene (p/m)	ND	0.00202 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 18:39	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Methods	i					
Chloride	42.2	1.01 m	ng/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 20:37	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	5M					
C6-C12	ND	25.3 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:01	TPH 8015M	
>C12-C28	ND	25.3 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:01	TPH 8015M	
>C28-C35	ND	25.3 n	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:01	TPH 8015M	
Surrogate: 1-Chlorooctane		86.8 %	70-1.	30	P1B0309	02/03/21 15:23	02/04/21 04:01	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-1.	30	P1B0309	02/03/21 15:23	02/04/21 04:01	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 n	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 04:01	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-2 @ 18' 1B03011-08 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basiı	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Toluene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Ethylbenzene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Xylene (o)	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-1.	20	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-1.	20	P1B0405	02/04/21 13:05	02/04/21 19:00	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard I	Methods	S					
Chloride	37.6	1.02 m	g/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 20:54	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:23	TPH 8015M	
>C12-C28	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:23	TPH 8015M	
>C28-C35	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:23	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-1.	30	P1B0309	02/03/21 15:23	02/04/21 04:23	TPH 8015M	
Surrogate: o-Terphenyl		98.5 %	70-1.	30	P1B0309	02/03/21 15:23	02/04/21 04:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	g/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 04:23	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-3 @ 16' 1B03011-09 (Soil)

Analyte	Result	Reporting Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	ın Bas	in Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Toluene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Ethylbenzene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Xylene (o)	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-120	)	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	80-120	)	P1B0405	02/04/21 13:05	02/04/21 19:20	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard 1	Methods						
Chloride	48.5	1.02 m	ng/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 21:10	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 8015	M					
C6-C12	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:46	TPH 8015M	
>C12-C28	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:46	TPH 8015M	
>C28-C35	ND	25.5 m	ng/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 04:46	TPH 8015M	
Surrogate: 1-Chlorooctane		85.5 %	70-130	)	P1B0309	02/03/21 15:23	02/04/21 04:46	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130	)	P1B0309	02/03/21 15:23	02/04/21 04:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	ng/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 04:46	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

WW-1 @ 18' 1B03011-10 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Toluene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Ethylbenzene	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Xylene (o)	ND	0.00102 m	g/kg dry	1	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	80-12	20	P1B0405	02/04/21 13:05	02/04/21 19:41	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard <b>N</b>	Methods						
Chloride	69.7	1.02 m	g/kg dry	1	P1B0303	02/03/21 16:25	02/03/21 21:26	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0403	02/04/21 09:59	02/04/21 10:03	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 05:09	TPH 8015M	
>C12-C28	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 05:09	TPH 8015M	
>C28-C35	ND	25.5 m	g/kg dry	1	P1B0309	02/03/21 15:23	02/04/21 05:09	TPH 8015M	
Surrogate: 1-Chlorooctane		87.2 %	70-13	30	P1B0309	02/03/21 15:23	02/04/21 05:09	TPH 8015M	
Surrogate: o-Terphenyl		97.7 %	70-13	30	P1B0309	02/03/21 15:23	02/04/21 05:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	g/kg dry	1	[CALC]	02/03/21 15:23	02/04/21 05:09	calc	

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1B0405 - General Preparation (G	GC)									
Blank (P1B0405-BLK1)				Prepared &	Analyzed:	02/04/21				
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	0.128		"	0.120		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
LCS (P1B0405-BS1)				Prepared &	Analyzed:	02/04/21				
Benzene	0.0918	0.00100	mg/kg wet	0.100		91.8	70-130			
Toluene	0.110	0.00100	"	0.100		110	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			
LCS Dup (P1B0405-BSD1)				Prepared &	Analyzed:	02/04/21				
Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	70-130	6.22	20	
Toluene	0.119	0.00100	"	0.100		119	70-130	8.41	20	
Ethylbenzene	0.120	0.00100	"	0.100		120	70-130	5.37	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130	3.77	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	9.93	20	
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			
Calibration Blank (P1B0405-CCB1)				Prepared &	Analyzed:	02/04/21				
Benzene	0.00		mg/kg wet							
Toluene	0.480		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
•		Limit	Omo	Lovei	resuit	, orce c	Limito	МЪ	Liiiit	110103
Batch P1B0405 - General Preparation (GC	5)									
Calibration Blank (P1B0405-CCB2)				Prepared &	Analyzed:	02/04/21				
Benzene	0.00		mg/kg wet							
Toluene	0.440		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	80-120			
Calibration Blank (P1B0405-CCB3)				Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.00		mg/kg wet							
Toluene	0.710		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			
Calibration Check (P1B0405-CCV1)				Prepared &	z Analyzed:	02/04/21				
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	75-125			
Calibration Check (P1B0405-CCV2)				Prepared &	Analyzed:	02/04/21				
Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0989	0.00100	"	0.100		98.9	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.0954	0.00100	"	0.100		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		114	75-125			

Permian Basin Environmental Lab, L.P.

0.135

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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### 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
Batch P1B0405 - General Preparation (GC)										
Calibration Check (P1B0405-CCV3)				Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0936	0.00100	mg/kg wet				80-120			
Toluene	0.115	0.00100	"				80-120			
Ethylbenzene	0.119	0.00100	"				80-120			
Xylene (p/m)	0.234	0.00200	"				80-120			
Xylene (o)	0.114	0.00100	"				80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		108	75-125			
Matrix Spike (P1B0405-MS1)	Sou	ırce: 1B03011	-01	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0750	0.00104	mg/kg dry	0.104	ND	72.0	80-120			QM-0
Toluene	0.0909	0.00104	"	0.104	ND	87.3	80-120			
Ethylbenzene	0.112	0.00104	"	0.104	ND	107	80-120			
Xylene (p/m)	0.186	0.00208	"	0.208	ND	89.3	80-120			
Xylene (o)	0.0909	0.00104	"	0.104	ND	87.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.125		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.125		110	80-120			
Matrix Spike Dup (P1B0405-MSD1)	Sou	ırce: 1B03011	-01	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0786	0.00104	mg/kg dry	0.104	ND	75.5	80-120	4.79	20	QM-0
Toluene	0.0959	0.00104	"	0.104	ND	92.1	80-120	5.33	20	
Ethylbenzene	0.120	0.00104	"	0.104	ND	115	80-120	6.89	20	
Xylene (p/m)	0.199	0.00208	"	0.208	ND	95.4	80-120	6.64	20	
Xylene (o)	0.0979	0.00104	"	0.104	ND	93.9	80-120	7.32	20	
Surrogate: 4-Bromofluorobenzene	0.138		"	0.125		111	80-120			

0.125

 ${\it Surrogate: 1,4-Diffuor obenzene}$ 

108

80-120

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0303 - *** DEFAULT PREP ***										
Blank (P1B0303-BLK1)				Prepared &	& Analyzed:	02/03/21				
Chloride	ND	1.00	mg/kg wet							
LCS (P1B0303-BS1)				Prepared &	& Analyzed:	02/03/21				
Chloride	379	1.00	mg/kg wet	400		94.8	90-110			
LCS Dup (P1B0303-BSD1)				Prepared &	& Analyzed:	02/03/21				
Chloride	377	1.00	mg/kg wet	400	-	94.1	90-110	0.720	20	
Calibration Check (P1B0303-CCV1)				Prepared &	& Analyzed:	02/03/21				
Chloride	19.5		mg/kg	20.0		97.6	90-110			
Calibration Check (P1B0303-CCV2)				Prepared &	& Analyzed:	02/03/21				
Chloride	19.8		mg/kg	20.0		98.8	90-110			
Matrix Spike (P1B0303-MS1)	Sou	rce: 1B03011	-01	Prepared &	& Analyzed:	02/03/21				
Chloride	554	1.04	mg/kg dry	521	36.2	99.4	80-120			
Matrix Spike Dup (P1B0303-MSD1)	Sou	rce: 1B03011	-01	Prepared &	& Analyzed:	02/03/21				
Chloride	511	1.04	mg/kg dry	521	36.2	91.1	80-120	8.13	20	
Batch P1B0403 - *** DEFAULT PREP ***										
Blank (P1B0403-BLK1)				Prepared &	& Analyzed:	02/04/21				
% Moisture	ND	0.1	%							
Blank (P1B0403-BLK2)				Prepared &	& Analyzed:	02/04/21				
% Moisture	ND	0.1	%	- 10 par 0 0	11101, 200.	<u></u>				

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

er: PP-21025

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0403 - *** DEFAULT PREP ***										
Blank (P1B0403-BLK3)				Prepared &	z Analyzed:	02/04/21				
% Moisture	ND	0.1	%							
Blank (P1B0403-BLK4)				Prepared &	z Analyzed:	02/04/21				
% Moisture	ND	0.1	%							
Duplicate (P1B0403-DUP1)	Sour	ce: 1B02012-	03	Prepared &	z Analyzed:	02/04/21				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P1B0403-DUP2)	Sour	ce: 1B03002-	01	Prepared &	z Analyzed:	02/04/21				
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P1B0403-DUP3)	Sour	ce: 1B03004-	03	Prepared &	z Analyzed:	02/04/21				
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P1B0403-DUP4)	Sour	ce: 1B03006-	01	Prepared &	z Analyzed:	02/04/21				
% Moisture	52.0	0.1	%		54.0			3.77	20	
Duplicate (P1B0403-DUP5)	Sour	ce: 1B03010-	05	Prepared &	. Analyzed:	02/04/21				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1B0403-DUP6)	Sour	ce: 1B03010-	15	Prepared &	z Analyzed:	02/04/21				
% Moisture	3.0	0.1	%		4.0			28.6	20	F
Duplicate (P1B0403-DUP7)	Sour	ce: 1B03011-	04	Prepared &	z Analyzed:	02/04/21				
% Moisture	3.0	0.1	%		3.0			0.00	20	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1B0309 - TX 1005										
Blank (P1B0309-BLK1)				Prepared: (	02/03/21 At	nalvzed: 02	/04/21			
C6-C12	ND	25.0	mg/kg wet	F						
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	77.4		"	100		77.4	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			
LCS (P1B0309-BS1)				Prepared: (	02/03/21 Ai	nalyzed: 02	/04/21			
C6-C12	754	25.0	mg/kg wet	1000		75.4	75-125			
>C12-C28	857	25.0	"	1000		85.7	75-125			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.4	70-130			
LCS Dup (P1B0309-BSD1)				Prepared: (	02/03/21 Ai	nalyzed: 02	/04/21			
C6-C12	760	25.0	mg/kg wet	1000		76.0	75-125	0.881	20	
>C12-C28	827	25.0	"	1000		82.7	75-125	3.64	20	
Surrogate: 1-Chlorooctane	91.8		"	100		91.8	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.5	70-130			
Calibration Check (P1B0309-CCV1)				Prepared &	ն Analyzed:	02/03/21				
C6-C12	438	25.0	mg/kg wet	500		87.6	85-115			
>C12-C28	470	25.0	"	500		93.9	85-115			
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	42.0		"	50.0		84.0	70-130			
Calibration Check (P1B0309-CCV2)				Prepared: (	02/03/21 At	nalyzed: 02	/04/21			
C6-C12	438	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	431	25.0	"	500		86.2	85-115			
Surrogate: 1-Chlorooctane	80.0		"	100		80.0	70-130			
Surrogate: o-Terphenyl	37.8		"	50.0		75.7	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

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

#### Batch P1B0309 - TX 1005

Duplicate (P1B0309-DUP1)	Source:	1B03011-10	Prepared: 02/03/21 Analyze	d: 02/04/21		
C6-C12	ND	25.5 mg/kg dry	ND			20
>C12-C28	17.3	25.5 "	18.3		5.60	20
Surrogate: 1-Chlorooctane	83.2	"	102 81.	5 70-130		
Surrogate: o-Terphenyl	46.5	"	51.0 91.	1 70-130		

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

#### **Notes and Definitions**

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

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

recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Davier C			
Report Approved By:			Date:	2/5/2021	

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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Date	02/03/2/	HOR SOLVEN					·							FIELD CODE			Faylan Lampa	432-230-0920		Midland TX 79707	12600 West County Rd. 91		Dean	Sylwia Reynolds	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian 1400 Rai
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## PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

#### **Prepared for:**

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

Project: Hudson Federal 4 Remediation
Project Number: PP-21025
Location: Lea County, New Mexico

Lab Order Number: 1B04002



**Current Certification** 

Report Date: 02/07/21

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-3 @ 13'	1B04002-01	Soil	02/03/21 09:25	02-04-2021 13:18
BH-4 @ 13'	1B04002-02	Soil	02/03/21 09:28	02-04-2021 13:18
BH-5 @ 13'	1B04002-03	Soil	02/03/21 12:00	02-04-2021 13:18
BH-6 @ 13'	1B04002-04	Soil	02/03/21 12:48	02-04-2021 13:18
BH-7 @ 13'	1B04002-05	Soil	02/03/21 12:58	02-04-2021 13:18
BH-8 @ 13'	1B04002-06	Soil	02/03/21 12:56	02-04-2021 13:18
BH-9 @ 13'	1B04002-07	Soil	02/03/21 13:00	02-04-2021 13:18
BH-10 @ 13'	1B04002-08	Soil	02/03/21 13:03	02-04-2021 13:18
NBF-1 @ 10'	1B04002-09	Soil	02/03/21 13:13	02-04-2021 13:18
NBF-2 @ 3'	1B04002-10	Soil	02/03/21 13:17	02-04-2021 13:18
NW-2 @ 11'	1B04002-11	Soil	02/03/21 13:05	02-04-2021 13:18
NW-3 @ 6'	1B04002-12	Soil	02/03/21 13:15	02-04-2021 13:18
NW-4 @ 1.5'	1B04002-13	Soil	02/03/21 13:19	02-04-2021 13:18
EBF-1 @ 10'	1B04002-14	Soil	02/03/21 09:44	02-04-2021 13:18
EBF-2 @ 10'	1B04002-15	Soil	02/03/21 13:07	02-04-2021 13:18
EBF-3 @ 5'	1B04002-16	Soil	02/03/21 10:07	02-04-2021 13:18
EBF-4 @ 3'	1B04002-17	Soil	02/03/21 13:20	02-04-2021 13:18
EW-4 @ 11'	1B04002-18	Soil	02/03/21 09:34	02-04-2021 13:18
EW-5 @ 8'	1B04002-19	Soil	02/03/21 09:45	02-04-2021 13:18
EW-6 @ 2.5'	1B04002-20	Soil	02/03/21 10:07	02-04-2021 13:18
EW-7 @ 11'	1B04002-21	Soil	02/03/21 13:05	02-04-2021 13:18
EW-8 @ 8'	1B04002-22	Soil	02/03/21 13:10	02-04-2021 13:18
EW-9 @ 1.5'	1B04002-23	Soil	02/03/21 13:22	02-04-2021 13:18
SEBF-1 @ 13'	1B04002-24	Soil	02/03/21 12:46	02-04-2021 13:18
SEBF-2 @ 11'	1B04002-25	Soil	02/03/21 12:51	02-04-2021 13:18
SEBF-3 @ 10'	1B04002-26	Soil	02/03/21 12:53	02-04-2021 13:18
SEW-2 @ 15'	1B04002-27	Soil	02/03/21 12:50	02-04-2021 13:18
SW-3 @ 11'	1B04002-28	Soil	02/03/21 09:32	02-04-2021 13:18
SW-4 @ 8'	1B04002-29	Soil	02/03/21 09:42	02-04-2021 13:18
SW-5 @ 2.5'	1B04002-30	Soil	02/03/21 10:02	02-04-2021 13:18
SBF-1 @ 10'	1B04002-31	Soil	02/03/21 09:40	02-04-2021 13:18
SBF-2 @ 5'	1B04002-32	Soil	02/03/21 09:59	02-04-2021 13:18
WW-2 @ 6'	1B04002-33	Soil	02/03/21 10:11	02-04-2021 13:18
WW-3 @ 6'	1B04002-34	Soil	02/03/21 13:23	02-04-2021 13:18

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Permian Basin Environmental Lab, L.P.

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

BH-3 @ 13' 1B04002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	nian Basi	in Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00105 1	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Toluene	ND	0.00105 1	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Ethylbenzene	ND	0.00105	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Xylene (o)	ND	0.00105 1	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 20:44	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	<u>s</u>					
Chloride	5.87	1.05 1	mg/kg dry	1	P1B0402	02/04/21 15:02	02/05/21 01:26	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M	-				
C6-C12	ND	26.3	mg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:15	TPH 8015M	
>C12-C28	ND	26.3 1	mg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:15	TPH 8015M	
>C28-C35	ND	26.3 1	mg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:15	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 16:15	TPH 8015M	
Surrogate: o-Terphenyl		95.1 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 16:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3 1	mg/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 16:15	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

BH-4 @ 13' 1B04002-02 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	ıg/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Toluene	ND	0.00104 m	ıg/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Ethylbenzene	ND	0.00104 m	ıg/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Xylene (p/m)	ND	0.00208 m	ıg/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Xylene (o)	ND	0.00104 m	ıg/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-12	20	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-12	20	P1B0405	02/04/21 15:21	02/04/21 21:05	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard I	Methods	i					
Chloride	6.15	1.04 m	ıg/kg dry	1	P1B0402	02/04/21 15:02	02/05/21 01:42	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	thod 801	5M					
C6-C12	ND	26.0 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:37	TPH 8015M	
>C12-C28	ND	26.0 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:37	TPH 8015M	
>C28-C35	ND	26.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 16:37	TPH 8015M	
Surrogate: 1-Chlorooctane		91.6 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 16:37	TPH 8015M	
Surrogate: o-Terphenyl		96.8 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 16:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 16:37	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-5 @ 13' 1B04002-03 (Soil)

Analyte	Result	Reporting Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00105 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Toluene	ND	0.00105 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Ethylbenzene	ND	0.00105 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Xylene (p/m)	ND	0.00211 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Xylene (o)	ND	0.00105 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 21:26	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	<u> Aethods</u>	8					
Chloride	2.18	1.05 m	g/kg dry	1	P1B0402	02/04/21 15:02	02/05/21 01:59	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	15M					
C6-C12	ND	26.3 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:00	TPH 8015M	
>C12-C28	ND	26.3 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:00	TPH 8015M	
>C28-C35	ND	26.3 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane		87.5 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 17:00	TPH 8015M	
Surrogate: o-Terphenyl		94.4 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 17:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 17:00	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

BH-6 @ 13' 1B04002-04 (Soil)

Analyte	Result	Reporting Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes				
Permian Basin Environmental Lab, L.P.													
BTEX by 8021B													
Benzene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Toluene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Ethylbenzene	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Xylene (p/m)	ND	0.00208 mg	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Xylene (o)	ND	0.00104 mg	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Surrogate: 1,4-Difluorobenzene		107 %	80-120	)	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
Surrogate: 4-Bromofluorobenzene		114 %	80-120	)	P1B0405	02/04/21 15:21	02/04/21 21:47	EPA 8021B					
General Chemistry Parameter	s by EPA/	Standard N	<b>1ethods</b>										
Chloride	8.45	1.04 mg	g/kg dry	1	P1B0402	02/04/21 15:02	02/05/21 02:15	EPA 300.0					
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216					
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	nod 8015	M									
C6-C12	ND	26.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:23	TPH 8015M					
>C12-C28	ND	26.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:23	TPH 8015M					
>C28-C35	ND	26.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:23	TPH 8015M					
Surrogate: 1-Chlorooctane		89.8 %	70-130	)	P1B0406	02/04/21 13:30	02/04/21 17:23	TPH 8015M					
Surrogate: o-Terphenyl		95.7 %	70-130	)	P1B0406	02/04/21 13:30	02/04/21 17:23	TPH 8015M					
Total Petroleum Hydrocarbon C6-C35	ND	26.0 mg	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 17:23	calc					

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-7 @ 13' 1B04002-05 (Soil)

Analyte	Result	Reporting Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	an Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Toluene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Ethylbenzene	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Xylene (p/m)	ND	0.00206 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Xylene (o)	ND	0.00103 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-12	0	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-12	0	P1B0405	02/04/21 15:21	02/04/21 22:07	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard 1	Methods						
Chloride	29.6	1.03 m	ng/kg dry	1	P1B0402	02/04/21 15:02	02/05/21 02:31	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 8015	5M					
C6-C12	ND	25.8 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:46	TPH 8015M	
>C12-C28	ND	25.8 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:46	TPH 8015M	
>C28-C35	ND	25.8 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 17:46	TPH 8015M	
Surrogate: 1-Chlorooctane		90.8 %	70-13	0	P1B0406	02/04/21 13:30	02/04/21 17:46	TPH 8015M	
Surrogate: o-Terphenyl		97.1 %	70-13	0	P1B0406	02/04/21 13:30	02/04/21 17:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 17:46	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

BH-8 @ 13' 1B04002-06 (Soil)

Analyte	Result	Reporting Limit U	Jnits I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Toluene	ND	0.00104 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Ethylbenzene	ND	0.00104 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Xylene (p/m)	ND	0.00208 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Xylene (o)	ND	0.00104 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-120	)	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120	)	P1B0405	02/04/21 15:21	02/04/21 22:28	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard I	Methods						
Chloride	29.7	1.04 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 09:49	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	SM .					
C6-C12	ND	26.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:08	TPH 8015M	
>C12-C28	ND	26.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:08	TPH 8015M	
>C28-C35	ND	26.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:08	TPH 8015M	
Surrogate: 1-Chlorooctane		88.1 %	70-130	)	P1B0406	02/04/21 13:30	02/04/21 18:08	TPH 8015M	
Surrogate: o-Terphenyl		94.5 %	70-130	)	P1B0406	02/04/21 13:30	02/04/21 18:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 18:08	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

BH-9 @ 13' 1B04002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Toluene	ND	0.00104 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Ethylbenzene	ND	0.00104 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Xylene (p/m)	ND	0.00208 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Xylene (o)	ND	0.00104 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 22:49	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	s					
Chloride	ND	1.04 n	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 10:38	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	26.0 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:31	TPH 8015M	
>C12-C28	ND	26.0 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:31	TPH 8015M	
>C28-C35	ND	26.0 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:31	TPH 8015M	
Surrogate: 1-Chlorooctane		83.4 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 18:31	TPH 8015M	
Surrogate: o-Terphenyl		90.3 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 18:31	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 18:31	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

BH-10 @ 13' 1B04002-08 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00109 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Toluene	ND	0.00109 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Ethylbenzene	ND	0.00109 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Xylene (p/m)	ND	0.00217 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Xylene (o)	ND	0.00109 m	g/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-1.	20	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-1.	20	P1B0405	02/04/21 15:21	02/04/21 23:10	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	Methods	8					
Chloride	12.3	1.09 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 10:54	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	27.2 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:55	TPH 8015M	
>C12-C28	ND	27.2 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:55	TPH 8015M	
>C28-C35	ND	27.2 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 18:55	TPH 8015M	
Surrogate: 1-Chlorooctane		84.6 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 18:55	TPH 8015M	
Surrogate: o-Terphenyl		91.5 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 18:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 18:55	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

NBF-1 @ 10' 1B04002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Toluene	ND	0.00102 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Ethylbenzene	ND	0.00102 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Xylene (p/m)	ND	0.00204 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Xylene (o)	ND	0.00102 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 23:31	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	s					
Chloride	ND	1.02 n	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 11:11	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	15M					
C6-C12	ND	25.5 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:18	TPH 8015M	
>C12-C28	ND	25.5 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:18	TPH 8015M	
>C28-C35	ND	25.5 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:18	TPH 8015M	
Surrogate: 1-Chlorooctane		81.5 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 19:18	TPH 8015M	
Surrogate: o-Terphenyl		89.5 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 19:18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 19:18	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

NBF-2 @ 3' 1B04002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Toluene	ND	0.00101 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Ethylbenzene	ND	0.00101 m	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Xylene (p/m)	ND	0.00202 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-1	20	P1B0405	02/04/21 15:21	02/04/21 23:52	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard	Method	s					
Chloride	13.9	1.01 n	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 11:27	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	15M					
C6-C12	ND	25.3 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:42	TPH 8015M	
>C12-C28	ND	25.3 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:42	TPH 8015M	
>C28-C35	ND	25.3 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 19:42	TPH 8015M	
Surrogate: 1-Chlorooctane		80.4 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 19:42	TPH 8015M	-
Surrogate: o-Terphenyl		88.9 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 19:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 19:42	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

NW-2 @ 11' 1B04002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Toluene	0.00106	0.00102 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Ethylbenzene	ND	0.00102 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Xylene (p/m)	0.00379	0.00204 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Xylene (o)	ND	0.00102 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 02:38	EPA 8021B	
General Chemistry Paramete	ers by EPA/	Standard 1	Methods	S .					
Chloride	21.8	1.02 m	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 11:43	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Me	thod 801	5M					
C6-C12	ND	25.5 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 20:52	TPH 8015M	
>C12-C28	ND	25.5 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 20:52	TPH 8015M	
>C28-C35	ND	25.5 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 20:52	TPH 8015M	
Surrogate: 1-Chlorooctane		87.0 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 20:52	TPH 8015M	
Surrogate: o-Terphenyl		90.4 %	70-1.	30	P1B0406	02/04/21 13:30	02/04/21 20:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 20:52	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

NW-3 @ 6' 1B04002-12 (Soil)

Analyte	Result	Reporting Limit U	Jnits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00100 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Toluene	0.00118	0.00100 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Ethylbenzene	0.00179	0.00100 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Xylene (p/m)	0.00691	0.00200 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Xylene (o)	0.00138	0.00100 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	80-120		P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P1B0412	02/04/21 15:35	02/05/21 02:59	EPA 8021B	
General Chemistry Paramete	ers by EPA/	Standard I	Methods						
Chloride	ND	1.00 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 11:59	EPA 300.0	
% Moisture	ND	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Met	hod 8015	M					
C6-C12	ND	25.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:16	TPH 8015M	
>C12-C28	ND	25.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:16	TPH 8015M	
>C28-C35	ND	25.0 m	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:16	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-130		P1B0406	02/04/21 13:30	02/04/21 21:16	TPH 8015M	
Surrogate: o-Terphenyl		83.0 %	70-130		P1B0406	02/04/21 13:30	02/04/21 21:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 21:16	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

NW-4 @ 1.5' 1B04002-13 (Soil)

					_			_	
		Reporting							
Analyte	Result	Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Note
			Permi	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Toluene	0.00208	0.00101 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Ethylbenzene	0.00136	0.00101 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Xylene (p/m)	0.00445	0.00202 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Xylene (o)	0.00122	0.00101 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 03:20	EPA 8021B	
<b>General Chemistry Paramete</b>	ers by EPA/	Standard I	Methods						
Chloride	ND	1.01 m	ıg/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 12:16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbo	ns C6-C35 b	y EPA Met	thod 801	5M					
C6-C12	ND	25.3 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:39	TPH 8015M	
>C12-C28	ND	25.3 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:39	TPH 8015M	
>C28-C35	ND	25.3 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 21:39	TPH 8015M	
Surrogate: 1-Chlorooctane		85.4 %	70-13	80	P1B0406	02/04/21 13:30	02/04/21 21:39	TPH 8015M	
Surrogate: o-Terphenyl		90.0 %	70-13	80	P1B0406	02/04/21 13:30	02/04/21 21:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 21:39	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

EBF-1 @ 10' 1B04002-14 (Soil)

Analyte	Result	Reporting Limit U	nits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permi	ian Basi	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 mg	/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Toluene	ND	0.00103 mg	/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Ethylbenzene	ND	0.00103 mg	/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Xylene (p/m)	ND	0.00206 mg	/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Xylene (o)	ND	0.00103 mg	/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 03:41	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard M	<u> 1ethods</u>						
Chloride	ND	1.03 mg	/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 12:32	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	10d 801	5M					
C6-C12	ND	25.8 mg	/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:02	TPH 8015M	
>C12-C28	ND	25.8 mg	/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:02	TPH 8015M	
>C28-C35	ND	25.8 mg	/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:02	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-13	30	P1B0406	02/04/21 13:30	02/04/21 22:02	TPH 8015M	
Surrogate: o-Terphenyl		94.2 %	70-13	30	P1B0406	02/04/21 13:30	02/04/21 22:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 mg	/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 22:02	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EBF-2 @ 10' 1B04002-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Toluene	ND	0.00104 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Ethylbenzene	ND	0.00104 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Xylene (p/m)	ND	0.00208 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Xylene (o)	ND	0.00104 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 04:02	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard 1	Method	s					
Chloride	ND	1.04 m	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 12:48	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	26.0 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:25	TPH 8015M	
>C12-C28	ND	26.0 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:25	TPH 8015M	
>C28-C35	ND	26.0 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:25	TPH 8015M	
Surrogate: 1-Chlorooctane		84.5 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 22:25	TPH 8015M	
Surrogate: o-Terphenyl		90.5 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 22:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 22:25	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

EBF-3 @ 5' 1B04002-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Toluene	ND	0.00101 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Ethylbenzene	ND	0.00101 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Xylene (p/m)	ND	0.00202 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Xylene (o)	ND	0.00101 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 04:22	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA /	Standard	Method	s					
Chloride	ND	1.01 n	ng/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 13:37	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.3 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:49	TPH 8015M	
>C12-C28	ND	25.3 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:49	TPH 8015M	
>C28-C35	ND	25.3 n	ng/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 22:49	TPH 8015M	
Surrogate: 1-Chlorooctane		84.6 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 22:49	TPH 8015M	
Surrogate: o-Terphenyl		91.2 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 22:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 22:49	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EBF-4 @ 3' 1B04002-17 (Soil)

Analyte	Result	Reporting Limit U	nits Di	lution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Toluene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Ethylbenzene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Xylene (p/m)	ND	0.00202 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-120		P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P1B0412	02/04/21 15:35	02/05/21 04:43	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	<b>1ethods</b>						
Chloride	ND	1.01 mg	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 14:26	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	М					
C6-C12	ND	25.3 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:12	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:12	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:12	TPH 8015M	
Surrogate: 1-Chlorooctane		80.6 %	70-130		P1B0406	02/04/21 13:30	02/04/21 23:12	TPH 8015M	
Surrogate: o-Terphenyl		86.4 %	70-130		P1B0406	02/04/21 13:30	02/04/21 23:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 23:12	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-4 @ 11' 1B04002-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Toluene	ND	0.00103 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Ethylbenzene	ND	0.00103 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Xylene (p/m)	ND	0.00206 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Xylene (o)	ND	0.00103 m	ıg/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 05:04	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard 1	Method	s					
Chloride	ND	1.03 m	ıg/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 14:42	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 801	15M					
C6-C12	ND	25.8 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:36	TPH 8015M	
>C12-C28	ND	25.8 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:36	TPH 8015M	
>C28-C35	ND	25.8 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:36	TPH 8015M	
Surrogate: 1-Chlorooctane		89.7 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 23:36	TPH 8015M	
Surrogate: o-Terphenyl		96.8 %	70-1	30	P1B0406	02/04/21 13:30	02/04/21 23:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 23:36	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-5 @ 8' 1B04002-19 (Soil)

Analyte	Result	Reporting Limit U	nits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00100 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Toluene	ND	0.00100 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Ethylbenzene	ND	0.00100 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Xylene (p/m)	ND	0.00200 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Xylene (o)	ND	0.00100 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	80-120		P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	80-120		P1B0412	02/04/21 15:35	02/05/21 05:25	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	<b>1ethods</b>						
Chloride	ND	1.00 mg	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 14:59	EPA 300.0	
% Moisture	ND	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 80151	M					
C6-C12	ND	25.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:59	TPH 8015M	
>C12-C28	ND	25.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:59	TPH 8015M	
>C28-C35	ND	25.0 mg	g/kg dry	1	P1B0406	02/04/21 13:30	02/04/21 23:59	TPH 8015M	
Surrogate: 1-Chlorooctane		86.4 %	70-130		P1B0406	02/04/21 13:30	02/04/21 23:59	TPH 8015M	
Surrogate: o-Terphenyl		93.1 %	70-130		P1B0406	02/04/21 13:30	02/04/21 23:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0 mg	g/kg dry	1	[CALC]	02/04/21 13:30	02/04/21 23:59	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-6 @ 2.5' 1B04002-20 (Soil)

Analyte	Result	Reporting Limit 1	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Toluene	ND	0.00101 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Ethylbenzene	ND	0.00101 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Xylene (p/m)	ND	0.00202 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Xylene (o)	ND	0.00101 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	80-12	20	P1B0412	02/04/21 15:35	02/05/21 05:45	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard 1	Methods	l					
Chloride	ND	1.01 m	ıg/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 15:15	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	thod 801	5M					
C6-C12	ND	25.3 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/05/21 00:23	TPH 8015M	
>C12-C28	ND	25.3 m	ıg/kg dry	1	P1B0406	02/04/21 13:30	02/05/21 00:23	TPH 8015M	
>C28-C35	ND	25.3 m	ng/kg dry	1	P1B0406	02/04/21 13:30	02/05/21 00:23	TPH 8015M	
Surrogate: 1-Chlorooctane		83.2 %	70-13	30	P1B0406	02/04/21 13:30	02/05/21 00:23	TPH 8015M	
Surrogate: o-Terphenyl		89.3 %	70-13	30	P1B0406	02/04/21 13:30	02/05/21 00:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 00:23	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-7 @ 11' 1B04002-21 (Soil)

Analyte	Result	Reporting Limit U	Jnits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Toluene	ND	0.00102 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Ethylbenzene	ND	0.00102 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Xylene (o)	ND	0.00102 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-120		P1B0412	02/04/21 15:35	02/05/21 06:48	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA/	Standard N	Methods						
Chloride	ND	1.02 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 15:31	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015]	М					
C6-C12	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:06	TPH 8015M	
>C12-C28	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:06	TPH 8015M	
>C28-C35	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:06	TPH 8015M	
Surrogate: 1-Chlorooctane		87.1 %	70-130		P1B0407	02/04/21 13:30	02/05/21 03:06	TPH 8015M	
Surrogate: o-Terphenyl		91.2 %	70-130		P1B0407	02/04/21 13:30	02/05/21 03:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 03:06	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

EW-8 @ 8' 1B04002-22 (Soil)

Analyte	Result	Reporting Limit Ur	nits Dilut	ion Batch	Prepared	Analyzed	Method	Note
			Permian l	Basin Environi	mental Lab, L.P.			
BTEX by 8021B								
Benzene	ND	0.00101 mg	/kg dry 1	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Toluene	ND	0.00101 mg	/kg dry 1	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Ethylbenzene	ND	0.00101 mg	/kg dry 1	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Xylene (p/m)	ND	0.00202 mg	/kg dry 1	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Xylene (o)	ND	0.00101 mg	/kg dry 1	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-120	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-120	P1B0412	02/04/21 15:35	02/05/21 07:09	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA/	Standard M	lethods					
Chloride	ND	1.01 mg	/kg dry 1	P1B0410	02/04/21 15:09	02/05/21 15:48	EPA 300.0	
% Moisture	1.0	0.1	% 1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Meth	od 8015M					
C6-C12	ND	25.3 mg	/kg dry 1	P1B0407	02/04/21 13:30	02/05/21 03:29	TPH 8015M	
>C12-C28	ND	25.3 mg	/kg dry 1	P1B0407	02/04/21 13:30	02/05/21 03:29	TPH 8015M	
>C28-C35	ND	25.3 mg	/kg dry 1	P1B0407	02/04/21 13:30	02/05/21 03:29	TPH 8015M	
Surrogate: 1-Chlorooctane		85.4 %	70-130	P1B0407	02/04/21 13:30	02/05/21 03:29	TPH 8015M	
Surrogate: o-Terphenyl		89.4 %	70-130	P1B0407	02/04/21 13:30	02/05/21 03:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	/kg dry 1	[CALC]	02/04/21 13:30	02/05/21 03:29	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

EW-9 @ 1.5' 1B04002-23 (Soil)

Analyte	Result	Reporting Limit U	nits Di	ution	Batch	Prepared	Analyzed	Method	Notes
			Permiar	Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Toluene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Ethylbenzene	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Xylene (p/m)	ND	0.00202 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Xylene (o)	ND	0.00101 mg	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-120		P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		P1B0412	02/04/21 15:35	02/05/21 07:29	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard N	<b>1ethods</b>						
Chloride	ND	1.01 mg	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 16:04	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Metl	nod 8015N	1					
C6-C12	ND	25.3 mg	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:52	TPH 8015M	
>C12-C28	ND	25.3 mg	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:52	TPH 8015M	
>C28-C35	ND	25.3 mg	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 03:52	TPH 8015M	
Surrogate: 1-Chlorooctane		85.6 %	70-130		P1B0407	02/04/21 13:30	02/05/21 03:52	TPH 8015M	
Surrogate: o-Terphenyl		92.8 %	70-130		P1B0407	02/04/21 13:30	02/05/21 03:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 mg	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 03:52	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

SEBF-1 @ 13' 1B04002-24 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Note
<u> </u>						<u> </u>	<u> </u>		
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Toluene	ND	0.00104 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Ethylbenzene	ND	0.00104 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Xylene (p/m)	ND	0.00208 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Xylene (o)	ND	0.00104 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 07:49	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard I	Method	S					
Chloride	9.17	1.04 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 16:20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	15M					
C6-C12	ND	26.0 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:15	TPH 8015M	
>C12-C28	ND	26.0 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:15	TPH 8015M	
>C28-C35	ND	26.0 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:15	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 04:15	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 04:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 04:15	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SEBF-2 @ 11' 1B04002-25 (Soil)

Analyte	Result	Reporting Limit U	Jnits D	ilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	n Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Toluene	ND	0.00103 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Ethylbenzene	ND	0.00103 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Xylene (p/m)	ND	0.00206 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Xylene (o)	ND	0.00103 m	g/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-120	1	P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P1B0412	02/04/21 15:35	02/05/21 08:10	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA/	Standard I	Methods						
Chloride	ND	1.03 m	g/kg dry	1	P1B0410	02/04/21 15:09	02/05/21 16:37	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	M					
C6-C12	ND	25.8 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:39	TPH 8015M	
>C12-C28	ND	25.8 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:39	TPH 8015M	
>C28-C35	ND	25.8 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 04:39	TPH 8015M	
Surrogate: 1-Chlorooctane		88.4 %	70-130		P1B0407	02/04/21 13:30	02/05/21 04:39	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P1B0407	02/04/21 13:30	02/05/21 04:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 04:39	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SEBF-3 @ 10' 1B04002-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Pern	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103 r	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Toluene	ND	0.00103 r	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Ethylbenzene	ND	0.00103 r	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Xylene (p/m)	ND	0.00206 r	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Xylene (o)	ND	0.00103 r	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 08:30	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	s					
Chloride	ND	1.03 r	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 18:15	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.8 r	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:02	TPH 8015M	
>C12-C28	ND	25.8 r	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:02	TPH 8015M	
>C28-C35	ND	25.8 r	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:02	TPH 8015M	
Surrogate: 1-Chlorooctane		85.0 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 05:02	TPH 8015M	
Surrogate: o-Terphenyl		91.6 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 05:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8 r	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 05:02	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

SEW-2 @ 15' 1B04002-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Pern	nian Basi	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Toluene	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Ethylbenzene	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Xylene (p/m)	ND	0.00204 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Xylene (o)	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-1	120	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-1	120	P1B0412	02/04/21 15:35	02/05/21 08:51	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard	Method	ls					
Chloride	ND	1.02 n	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 19:04	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:25	TPH 8015M	
>C12-C28	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:25	TPH 8015M	
>C28-C35	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:25	TPH 8015M	
Surrogate: 1-Chlorooctane		88.8 %	70-1	130	P1B0407	02/04/21 13:30	02/05/21 05:25	TPH 8015M	
Surrogate: o-Terphenyl		94.1 %	70-1	130	P1B0407	02/04/21 13:30	02/05/21 05:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 05:25	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SW-3 @ 11' 1B04002-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Toluene	ND	0.00104 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Ethylbenzene	ND	0.00104 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Xylene (p/m)	ND	0.00208 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Xylene (o)	ND	0.00104 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 09:11	EPA 8021B	
<b>General Chemistry Parameter</b>	s by EPA /	Standard	Method	s					
Chloride	ND	1.04 m	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 19:20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	26.0 m	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:49	TPH 8015M	
>C12-C28	ND	26.0 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:49	TPH 8015M	
>C28-C35	ND	26.0 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 05:49	TPH 8015M	
Surrogate: 1-Chlorooctane		88.4 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 05:49	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 05:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 05:49	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SW-4 @ 8' 1B04002-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00100 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Toluene	ND	0.00100 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Ethylbenzene	ND	0.00100 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Xylene (p/m)	ND	0.00200 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Xylene (o)	ND	0.00100 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 09:32	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard :	Method	s					
Chloride	ND	1.00 n	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 19:36	EPA 300.0	
% Moisture	ND	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.0 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:12	TPH 8015M	
>C12-C28	ND	25.0 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:12	TPH 8015M	
>C28-C35	ND	25.0 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:12	TPH 8015M	
Surrogate: 1-Chlorooctane		84.5 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 06:12	TPH 8015M	
Surrogate: o-Terphenyl		92.5 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 06:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 06:12	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SW-5 @ 2.5' 1B04002-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Pern	nian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Toluene	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Ethylbenzene	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Xylene (p/m)	ND	0.00204 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Xylene (o)	ND	0.00102 n	ng/kg dry	1	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-1	'20	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-1	20	P1B0412	02/04/21 15:35	02/05/21 09:53	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard	Method	s					
Chloride	ND	1.02 n	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 19:52	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:35	TPH 8015M	
>C12-C28	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:35	TPH 8015M	
>C28-C35	ND	25.5 n	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 06:35	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 06:35	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 06:35	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 n	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 06:35	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

SBF-1 @ 10' 1B04002-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104 m	ng/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Toluene	ND	0.00104 m	ng/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Ethylbenzene	ND	0.00104 m	ng/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Xylene (p/m)	ND	0.00208 m	ng/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Xylene (o)	ND	0.00104 m	ng/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-1	20	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-1	20	P1B0413	02/04/21 15:46	02/05/21 12:39	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard 1	Method	s					
Chloride	ND	1.04 m	ng/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 20:09	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Me	thod 80	15M					
C6-C12	ND	26.0 m	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 07:43	TPH 8015M	
>C12-C28	ND	26.0 m	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 07:43	TPH 8015M	
>C28-C35	ND	26.0 m	ng/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 07:43	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 07:43	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 07:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0 m	ng/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 07:43	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

SBF-2 @ 5' 1B04002-32 (Soil)

Analyte	Result	Reporting Limit U	Jnits I	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Permia	an Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00101 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Toluene	ND	0.00101 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Ethylbenzene	ND	0.00101 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Xylene (p/m)	ND	0.00202 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Xylene (o)	ND	0.00101 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-120	)	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	80-120	)	P1B0413	02/04/21 15:46	02/05/21 13:00	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard I	Methods						
Chloride	ND	1.01 m	g/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 20:25	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 8015	M					
C6-C12	ND	25.3 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:05	TPH 8015M	
>C12-C28	ND	25.3 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:05	TPH 8015M	
>C28-C35	ND	25.3 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:05	TPH 8015M	
Surrogate: 1-Chlorooctane		89.9 %	70-130	)	P1B0407	02/04/21 13:30	02/05/21 08:05	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130	)	P1B0407	02/04/21 13:30	02/05/21 08:05	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 08:05	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

WW-2 @ 6' 1B04002-33 (Soil)

Analyte	Result	Reporting Limit U	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basii	n Environme	ental Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Toluene	ND	0.00102 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Ethylbenzene	ND	0.00102 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Xylene (p/m)	ND	0.00204 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Xylene (o)	ND	0.00102 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-1	20	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-1	20	P1B0413	02/04/21 15:46	02/05/21 13:21	EPA 8021B	
General Chemistry Parameter	s by EPA/	Standard I	Method	s					
Chloride	ND	1.02 m	g/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 20:41	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 80	15M					
C6-C12	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:28	TPH 8015M	
>C12-C28	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:28	TPH 8015M	
>C28-C35	ND	25.5 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:28	TPH 8015M	
Surrogate: 1-Chlorooctane		91.3 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 08:28	TPH 8015M	
Surrogate: o-Terphenyl		99.7 %	70-1	30	P1B0407	02/04/21 13:30	02/05/21 08:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 08:28	calc	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91 Project Number: PP-21025
Midland TX, 79707 Project Manager: Sylwia Reynolds

WW-3 @ 6' 1B04002-34 (Soil)

Analyte	Result	Reporting Limit U	Inits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00106 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Toluene	ND	0.00106 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Ethylbenzene	ND	0.00106 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Xylene (p/m)	ND	0.00213 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Xylene (o)	ND	0.00106 m	g/kg dry	1	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-12	20	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	80-12	20	P1B0413	02/04/21 15:46	02/05/21 13:42	EPA 8021B	
General Chemistry Parameter	s by EPA /	Standard N	<b>Aethods</b>	i					
Chloride	ND	1.06 m	g/kg dry	1	P1B0411	02/04/21 15:10	02/05/21 20:57	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1B0501	02/05/21 09:59	02/05/21 12:34	ASTM D2216	
Total Petroleum Hydrocarbon	s C6-C35 b	y EPA Met	hod 801	5M					
C6-C12	ND	26.6 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:50	TPH 8015M	
>C12-C28	ND	26.6 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:50	TPH 8015M	
>C28-C35	ND	26.6 m	g/kg dry	1	P1B0407	02/04/21 13:30	02/05/21 08:50	TPH 8015M	
Surrogate: 1-Chlorooctane		89.7 %	70-1.	30	P1B0407	02/04/21 13:30	02/05/21 08:50	TPH 8015M	
Surrogate: o-Terphenyl		97.6 %	70-1.	30	P1B0407	02/04/21 13:30	02/05/21 08:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6 m	g/kg dry	1	[CALC]	02/04/21 13:30	02/05/21 08:50	calc	

0.238

0.117

0.131

0.127

0.00200

0.00100

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

RPD

%REC

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

Spike

Source

Reporting

		reporting		Spike					KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0405 - General Preparation (G	GC)									
Blank (P1B0405-BLK1)				Prepared &	Analyzed:	02/04/21				
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	0.128		"	0.120		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	80-120			
LCS (P1B0405-BS1)				Prepared &	Analyzed:	02/04/21				
Benzene	0.0918	0.00100	mg/kg wet	0.100		91.8	70-130			
Toluene	0.110	0.00100	"	0.100		110	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			
LCS Dup (P1B0405-BSD1)				Prepared &	z Analyzed:	02/04/21				
Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	70-130	6.22	20	
Toluene	0.119	0.00100	"	0.100		119	70-130	8.41	20	
Ethylbenzene	0.120	0.00100	"	0.100		120	70-130	5.37	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130	3.77	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	9.93	20	
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	80-120			
Calibration Check (P1B0405-CCV1)				Prepared &	z Analyzed:	02/04/21				
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			

Permian Basin Environmental Lab, L.P.

Xylene (p/m)

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

Xylene (o)

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119

117

109

106

80-120

80-120

75-125

75-125

0.200

0.100

0.120

0.120

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

PP-21025

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0405 - General Preparation (GC	)									
Calibration Check (P1B0405-CCV2)				Prepared &	Analyzed:	02/04/21				
Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0989	0.00100	"	0.100		98.9	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.0954	0.00100	"	0.100		95.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			
Calibration Check (P1B0405-CCV3)				Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0936	0.00100	mg/kg wet				80-120			
Toluene	0.115	0.00100	"				80-120			
Ethylbenzene	0.119	0.00100	"				80-120			
Xylene (p/m)	0.234	0.00200	"				80-120			
Xylene (o)	0.114	0.00100	"				80-120			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Matrix Spike (P1B0405-MS1)	Sou	rce: 1B03011	-01	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0750	0.00104	mg/kg dry	0.104	ND	72.0	80-120			QM-07
Toluene	0.0909	0.00104	"	0.104	ND	87.3	80-120			
Ethylbenzene	0.112	0.00104	"	0.104	ND	107	80-120			
Xylene (p/m)	0.186	0.00208	"	0.208	ND	89.3	80-120			
Xylene (o)	0.0909	0.00104	"	0.104	ND	87.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.125		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.125		110	80-120			
Matrix Spike Dup (P1B0405-MSD1)	Sou	rce: 1B03011	-01	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Benzene	0.0786	0.00104	mg/kg dry	0.104	ND	75.5	80-120	4.79	20	QM-07
Toluene	0.0959	0.00104	"	0.104	ND	92.1	80-120	5.33	20	
Ethylbenzene	0.120	0.00104	"	0.104	ND	115	80-120	6.89	20	
Xylene (p/m)	0.199	0.00208	"	0.208	ND	95.4	80-120	6.64	20	
Xylene (o)	0.0979	0.00104	"	0.104	ND	93.9	80-120	7.32	20	
Surrogate: 1,4-Difluorobenzene	0.135		"	0.125		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.125		111	80-120			

Permian Basin Environmental Lab, L.P.

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0.234

0.114

0.123

0.129

0.00200

0.00100

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

RPD

%REC

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

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0412 - General Preparation (	GC)									
Blank (P1B0412-BLK1)				Prepared: (	)2/04/21 Aı	nalyzed: 02	/05/21			
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	0.141		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	80-120			
LCS (P1B0412-BS1)				Prepared: (	02/04/21 At	nalyzed: 02	/05/21			
Benzene	0.0871	0.00100	mg/kg wet	0.100		87.1	70-130			
Toluene	0.106	0.00100	"	0.100		106	70-130			
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.112	0.00100	"	0.100		112	70-130			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		108	80-120			-
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
LCS Dup (P1B0412-BSD1)				Prepared: (	)2/04/21 Aı	nalyzed: 02	/05/21			
Benzene	0.0894	0.00100	mg/kg wet	0.100		89.4	70-130	2.63	20	
Toluene	0.111	0.00100	"	0.100		111	70-130	4.98	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	2.19	20	
Xylene (p/m)	0.221	0.00200	"	0.200		110	70-130	4.24	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	4.27	20	
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		107	80-120			
Calibration Check (P1B0412-CCV1)				Prepared: (	)2/04/21 Aı	nalyzed: 02	/05/21			
Benzene	0.0936	0.00100	mg/kg wet	0.100		93.6	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			

Permian Basin Environmental Lab, L.P.

Xylene (p/m)

Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene

Xylene (o)

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117

114

102

108

80-120

80-120

75-125

75-125

0.200

0.100

0.120

0.120

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-	100000	Zanit		20.01	1100011	,,,,,	2		2	1.000
Batch P1B0412 - General Preparation (GC)										
Calibration Check (P1B0412-CCV2)					02/04/21 Ar					
Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0964	0.00100	"	0.100		96.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			
Calibration Check (P1B0412-CCV3)				Prepared: (	02/04/21 Ar	nalyzed: 02	2/05/21			
Benzene	0.0995	0.00100	mg/kg wet	0.100		99.5	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	75-125			
Matrix Spike (P1B0412-MS1)	Sou	ırce: 1B04002	-11	Prepared: (	02/04/21 Ar	nalyzed: 02	2/05/21			
Benzene	0.0763	0.00102	mg/kg dry	0.102	ND	74.7	80-120			QM-0
Toluene	0.0878	0.00102	"	0.102	0.00106	85.0	80-120			
Ethylbenzene	0.0983	0.00102	"	0.102	0.000796	95.5	80-120			
Xylene (p/m)	0.184	0.00204	"	0.204	0.00379	88.1	80-120			
Xylene (o)	0.0840	0.00102	"	0.102	0.000735	81.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.122		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.122		117	80-120			
Matrix Spike Dup (P1B0412-MSD1)	Sou	ırce: 1B04002	-11	Prepared: (	02/04/21 Ar	nalyzed: 02	2/05/21			
Benzene	0.0761	0.00102	mg/kg dry	0.102	ND	74.6	80-120	0.214	20	QM-0
Toluene	0.0917	0.00102	"	0.102	0.00106	88.8	80-120	4.35	20	
Ethylbenzene	0.102	0.00102	"	0.102	0.000796	99.7	80-120	4.23	20	
Xylene (p/m)	0.187	0.00204	"	0.204	0.00379	89.8	80-120	1.85	20	
Xylene (o)	0.0860	0.00102	"	0.102	0.000735	83.6	80-120	2.42	20	
Surrogate: 4-Bromofluorobenzene	0.143		"	0.122		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.122		110	80-120			

Permian Basin Environmental Lab, L.P.

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0.236

0.115

0.143

0.134

0.00200

0.00100

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

RPD

%REC

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

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0413 - General Preparation (	GC)									
Blank (P1B0413-BLK1)				Prepared: 0	)2/04/21 Aı	nalyzed: 02	/05/21			
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	0.130		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		113	80-120			
LCS (P1B0413-BS1)				Prepared: 0	)2/04/21 Aı	nalyzed: 02	/05/21			
Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	70-130			
Toluene	0.111	0.00100	"	0.100		111	70-130			
Ethylbenzene	0.118	0.00100	"	0.100		118	70-130			
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	80-120			-
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			
LCS Dup (P1B0413-BSD1)				Prepared: 0	)2/04/21 Aı	nalyzed: 02	/05/21			
Benzene	0.0993	0.00100	mg/kg wet	0.100		99.3	70-130	2.58	20	
Toluene	0.115	0.00100	"	0.100		115	70-130	3.60	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	0.179	20	
Xylene (p/m)	0.240	0.00200	"	0.200		120	70-130	1.46	20	
Xylene (o)	0.114	0.00100	"	0.100		114	70-130	3.79	20	
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		113	80-120			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		118	80-120			
Calibration Check (P1B0413-CCV1)				Prepared: 0	02/04/21 Aı	nalyzed: 02	/05/21			
Benzene	0.0995	0.00100	mg/kg wet	0.100		99.5	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			

Permian Basin Environmental Lab, L.P.

Xylene (p/m)

Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene

Xylene (o)

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118

115

119

112

80-120

80-120

75-125

75-125

0.200

0.100

0.120

0.120

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0402 - *** DEFAULT PREP ***										
Blank (P1B0402-BLK1)				Prepared &	k Analyzed:	02/04/21				
Chloride	ND	1.00	mg/kg wet							
LCS (P1B0402-BS1)				Prepared &	ն Analyzed:	02/04/21				
Chloride	373	1.00	mg/kg wet	400		93.2	90-110			
LCS Dup (P1B0402-BSD1)				Prepared &	ե Analyzed:	02/04/21				
Chloride	372	1.00	mg/kg wet	400		92.9	90-110	0.274	20	
Calibration Check (P1B0402-CCV1)				Prepared &	ն Analyzed:	02/04/21				
Chloride	18.2		mg/kg	20.0		90.9	90-110			
Calibration Check (P1B0402-CCV2)				Prepared &	k Analyzed:	02/04/21				
Chloride	18.4		mg/kg	20.0		92.2	90-110			
Calibration Check (P1B0402-CCV3)				Prepared: (	02/04/21 At	nalyzed: 02	/05/21			
Chloride	18.3		mg/kg	20.0		91.5	90-110			
Matrix Spike (P1B0402-MS1)	Sou	rce: 1B04003	3-01	Prepared &	k Analyzed:	02/04/21				
Chloride	462	1.01	mg/kg dry	505	5.65	90.4	80-120			
Matrix Spike (P1B0402-MS2)	Sou	rce: 1B04003	B-11	Prepared &	ն Analyzed:	02/04/21				
Chloride	670	1.01	mg/kg dry	505	229	87.2	80-120			
Matrix Spike Dup (P1B0402-MSD1)	Sou	rce: 1B04003	3-01	Prepared &	k Analyzed:	02/04/21				
Chloride	463	1.01	mg/kg dry	505	5.65	90.5	80-120	0.142	20	
Matrix Spike Dup (P1B0402-MSD2)	Sou	rce: 1B04003	3-11	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
Chloride	754	1.01	mg/kg dry	505	229	104	80-120	11.9	20	

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0410 - *** DEFAULT PREP ***										
Blank (P1B0410-BLK1)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	ND	1.00	mg/kg wet							
LCS (P1B0410-BS1)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	376	1.00	mg/kg wet	400		93.9	90-110			
LCS Dup (P1B0410-BSD1)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	374	1.00	mg/kg wet	400		93.5	90-110	0.470	20	
Calibration Check (P1B0410-CCV1)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	18.2		mg/kg	20.0		91.1	90-110			
Calibration Check (P1B0410-CCV2)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	18.4		mg/kg	20.0		92.1	90-110			
Matrix Spike (P1B0410-MS1)	Sour	rce: 1B04002	-06	Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	503	1.04	mg/kg dry	521	29.7	90.9	80-120			
Matrix Spike (P1B0410-MS2)	Sour	rce: 1B04002	-16	Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	455	1.01	mg/kg dry	505	ND	90.2	80-120			
Matrix Spike Dup (P1B0410-MSD1)	Sour	rce: 1B04002	-06	Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	498	1.04	mg/kg dry	521	29.7	89.9	80-120	1.06	20	
Matrix Spike Dup (P1B0410-MSD2)	Sour	rce: 1B04002	-16	Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	454	1.01	mg/kg dry	505	ND	90.0	80-120	0.220	20	
Batch P1B0411 - *** DEFAULT PREP ***										
Blank (P1B0411-BLK1)				Prepared: (	02/04/21 A	analyzed: 02	/05/21			
Chloride	ND	1.00	mg/kg wet							

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0411 - *** DEFAULT PREP ***										
LCS (P1B0411-BS1)				Prepared: (	02/04/21 A	Analyzed: 02	/05/21			
Chloride	377	1.00	mg/kg wet	400		94.2	90-110			
LCS Dup (P1B0411-BSD1)				Prepared: (	02/04/21 A	Analyzed: 02	/05/21			
Chloride	378	1.00	mg/kg wet	400		94.4	90-110	0.178	20	
Calibration Check (P1B0411-CCV1)				Prepared: (	02/04/21 A	Analyzed: 02	/05/21			
Chloride	18.5		mg/kg	20.0		92.4	90-110			
Calibration Check (P1B0411-CCV2)				Prepared: (	02/04/21 A	Analyzed: 02	/05/21			
Chloride	18.6		mg/kg	20.0		92.8	90-110			
Matrix Spike (P1B0411-MS1)	Sou	rce: 1B04002	2-26	Prepared: (	02/04/21 A	Analyzed: 02	2/05/21			
Chloride	467	1.03	mg/kg dry	515	ND	90.7	80-120			
Matrix Spike Dup (P1B0411-MSD1)	Sou	rce: 1B04002	2-26	Prepared: (	02/04/21 A	Analyzed: 02	/05/21			
Chloride	468	1.03	mg/kg dry	515	ND	90.7	80-120	0.0706	20	
Batch P1B0501 - *** DEFAULT PREP ***										
Blank (P1B0501-BLK1)				Prepared &	& Analyzed	: 02/05/21				
% Moisture	ND	0.1	%							
Blank (P1B0501-BLK2)				Prepared &	& Analyzed	: 02/05/21				
% Moisture	ND	0.1	%							
Blank (P1B0501-BLK3)				Prepared &	& Analyzed	: 02/05/21				
% Moisture	ND	0.1	%							

Fax:

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0501 - *** DEFAULT PREP ***										
Blank (P1B0501-BLK4)				Prepared &	z Analyzed:	02/05/21				
% Moisture	ND	0.1	%							
Duplicate (P1B0501-DUP1)	Sour	rce: 1B03012-	10	Prepared &	z Analyzed:	02/05/21				
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P1B0501-DUP2)	Sour	rce: 1B03012-	20	Prepared &	. Analyzed:	02/05/21				
% Moisture	4.0	0.1	%		5.0			22.2	20	
Duplicate (P1B0501-DUP3)	Sour	rce: 1B04002-	13	Prepared &	Analyzed:	02/05/21				
% Moisture	ND	0.1	%		1.0			200	20	
Duplicate (P1B0501-DUP4)	Sour	rce: 1B04002-	23	Prepared &	Analyzed:	02/05/21				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1B0501-DUP5)	Sour	rce: 1B04003-	04	Prepared &	Analyzed:	02/05/21				
% Moisture	4.0	0.1	%		1.0			120	20	
Duplicate (P1B0501-DUP6)	Sour	rce: 1B04003-	14	Prepared &	z Analyzed:	02/05/21				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P1B0501-DUP7)	Sour	rce: 1B04004-	03	Prepared &	Analyzed:	02/05/21				
% Moisture	9.0	0.1	%	<del>-</del>	9.0			0.00	20	

Fax:

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number: PP-21025Midland TX, 79707Project Manager: Sylwia Reynolds

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0406 - TX 1005	-	-	_	-	-		-		-	
Blank (P1B0406-BLK1)				Prepared &	: Analyzed:	02/04/21				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.4		"	100		83.4	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.2	70-130			
LCS (P1B0406-BS1)				Prepared &	: Analyzed:	02/04/21				
C6-C12	828	25.0	mg/kg wet	1000	-	82.8	75-125			
>C12-C28	845	25.0	"	1000		84.5	75-125			
Surrogate: 1-Chlorooctane	89.4		"	100		89.4	70-130			
Surrogate: o-Terphenyl	42.5		"	50.0		85.0	70-130			
LCS Dup (P1B0406-BSD1)				Prepared &	: Analyzed:	02/04/21				
C6-C12	835	25.0	mg/kg wet	1000		83.5	75-125	0.901	20	
>C12-C28	859	25.0	"	1000		85.9	75-125	1.67	20	
Surrogate: 1-Chlorooctane	92.0		"	100		92.0	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			
Calibration Check (P1B0406-CCV1)				Prepared &	: Analyzed:	02/04/21				
C6-C12	466	25.0	mg/kg wet	500	•	93.2	85-115			
>C12-C28	435	25.0	"	500		87.0	85-115			
Surrogate: 1-Chlorooctane	90.3		"	100		90.3	70-130			
Surrogate: o-Terphenyl	43.2		"	50.0		86.3	70-130			
Calibration Check (P1B0406-CCV2)				Prepared &	: Analyzed:	02/04/21				
C6-C12	440	25.0	mg/kg wet	500		87.9	85-115			
>C12-C28	431	25.0	"	500		86.2	85-115			
Surrogate: 1-Chlorooctane	82.0		"	100		82.0	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			

Permian Basin Environmental Lab, L.P.

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Fax:

Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

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
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes
Batch P1B0406 - TX 1005										
Duplicate (P1B0406-DUP1)	Sour	rce: 1B04002	2-20	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
C6-C12	11.0	25.3	mg/kg dry		11.0			0.367	20	
>C12-C28	ND	25.3	"		ND				20	
Surrogate: 1-Chlorooctane	84.8		"	101		84.0	70-130			
Surrogate: o-Terphenyl	45.7		"	50.5		90.4	70-130			
Batch P1B0407 - TX 1005										
Blank (P1B0407-BLK1)				Prepared: (	02/04/21 At	nalyzed: 02	/05/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.0		"	100		79.0	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.5	70-130			
LCS (P1B0407-BS1)				Prepared: (	)2/04/21 A	nalyzed: 02	/05/21			
C6-C12	814	25.0	mg/kg wet	1000		81.4	75-125			
>C12-C28	862	25.0	"	1000		86.2	75-125			
Surrogate: 1-Chlorooctane	87.4		"	100		87.4	70-130			
Surrogate: o-Terphenyl	41.3		"	50.0		82.6	70-130			
LCS Dup (P1B0407-BSD1)				Prepared: (	)2/04/21 Aı	nalyzed: 02	/05/21			
C6-C12	838	25.0	mg/kg wet	1000		83.8	75-125	2.91	20	
>C12-C28	926	25.0	"	1000		92.6	75-125	7.10	20	
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.2	70-130			
Calibration Check (P1B0407-CCV1)				Prepared: (	)2/04/21 Aı	nalyzed: 02	/05/21			
C6-C12	480	25.0	mg/kg wet	500		96.0	85-115			
>C12-C28	475	25.0	"	500		95.1	85-115			
Surrogate: 1-Chlorooctane	82.7		"	100		82.7	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.4	70-130			

Permian Basin Environmental Lab, L.P.

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Dean Project: Hudson Federal 4 Remediation

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1B0407 - TX 1005										
Calibration Check (P1B0407-CCV2)				Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
C6-C12	429	25.0	mg/kg wet	500		85.9	85-115			
>C12-C28	449	25.0	"	500		89.8	85-115			
Surrogate: 1-Chlorooctane	85.3		"	100		85.3	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.3	70-130			
Calibration Check (P1B0407-CCV3)				Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
C6-C12	450	25.0	mg/kg wet	500		90.1	85-115			
>C12-C28	471	25.0	"	500		94.1	85-115			
Surrogate: 1-Chlorooctane	91.5		"	100		91.5	70-130			
Surrogate: o-Terphenyl	44.3		"	50.0		88.6	70-130			
Duplicate (P1B0407-DUP1)	Sou	rce: 1B04002	2-34	Prepared: (	02/04/21 A	nalyzed: 02	/05/21			
C6-C12	19.9	26.6	mg/kg dry	·	12.7	·	·	44.7	20	·
>C12-C28	15.3	26.6	"		ND				20	
Surrogate: 1-Chlorooctane	98.9		"	106		93.0	70-130			
Surrogate: o-Terphenyl	53.9		"	53.2		101	70-130			

Dean Project: Hudson Federal 4 Remediation Fax:

12600 W County Rd 91Project Number:PP-21025Midland TX, 79707Project Manager:Sylwia Reynolds

#### **Notes and Definitions**

ROI Received on Ice

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

ecovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Davor C			
Report Approved By:			Date:	2/7/2021	

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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# APPENDIX C PHOTOGRAPHIC DOCUMENTATION

## Photograph No 1.

Date: January 24, 2021
Description: View of initial release area. Direction: Northwest



Photograph No 2.

Date: January 28, 2021 Direction: West

Description: View of excavation of pipeline release.



## Photograph No 3.

Date: January 29, 2021
Description: View of excavation area. Direction: North



Photograph No 4.

Direction: Southeast Date: February 2, 2021

Description: View of excavation area.



## Photograph No 5.

Date: February 10, 2021 Direction: South

Description: Completed excavation of pit.



## Photograph No 6

Direction: Southeast Date: February 23, 2021

Description: Transported impacted soils offsite and backfilling.



## Photograph No 7.

Date: February 26, 2021
Description: Backfilling of excavation. Direction: North



Photograph No 8.

Date: February 26, 2021 Direction: South



## Photograph No 9.

Date: March 1, 2021 Direction: South

Description: Backfilling of excavation.



Photograph No 10.

Date: March 3, 2021 Direction: East

Description: Completed backfilling of site.



# APPENDIX D EXTENSION REQUEST AND NMOCD RESPONSE

## **Jeff Kindley**

From: Amber L Groves <ALGroves@paalp.com>
Sent: Wednesday, May 19, 2021 7:51 AM

**To:** Jeff Kindley

Subject: FW: (Extension Approval) NAPP2102629238 Plains Hudson Federal 4 "

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

**Sent:** Monday, April 26, 2021 8:58 AM **To:** Amber L Groves <ALGroves@paalp.com>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>;

Hensley, Chad, EMNRD < Chad. Hensley@state.nm.us>

Subject: (Extension Approval) NAPP2102629238 Plains Hudson Federal 4 " [External]

RE: Incident #NAPP2102629238

#### Amber,

Your request for an extension to **May 22<sup>nd</sup>, 2021** is approved. Plains is requesting a 30 day extension for nAPP2102629238 Plains Hudson Federal 4". All remediation activities were completed on March 3<sup>rd</sup> including soil disposal and backfill. The closure report is currently being written and will be submitted within the next 30 days.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Amber L Groves <<u>ALGroves@paalp.com</u>>

**Sent:** Thursday, April 22, 2021 10:39 AM

**To:** Hamlet, Robert, EMNRD < <u>Robert.Hamlet@state.nm.us</u>>; Venegas, Victoria, EMNRD < <u>Victoria.Venegas@state.nm.us</u>>; Eads, Cristina, EMNRD < <u>Cristina.Eads@state.nm.us</u>>

Cc: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us >

Subject: [EXT] nAPP2102629238 Plains Hudson Federal 4 " Extension Request

#### Good Morning,

Plains would like to respectfully request a 30 day extension for nAPP2102629238 Plains Hudson Federal 4". All remediation activities were completed on March 3<sup>rd</sup> including soil disposal and backfill. The closure report is currently being written and will be submitted within the next 30 days. Please feel free to give me a call should you have any questions.

### Thank you,

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#### Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

### Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

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

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 28931

### **CONDITIONS**

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay St, Ste 1600	Action Number:
Houston, TX 77002	28931
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date					
chensley	None	8/3/2021					