CLOSURE REQUEST AND REMEDIATION SUMMARY

Plains Pipeline, LP.
Mewbourne Mad Dog 26 MP State Com No. 001H
Lea County, New Mexico
SRS #: 2018-120
Unit Letter "M", Section 26, Township 23 South, Range 34 East
Latitude 32.2687600° North, Longitude 103.4482740° West
NMOCD Reference # 1RP-5168

Prepared For:

Plains Pipeline, LP.
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, Texas 79764

January 2019

Rebecca Blake
Staff Scientist

Matthew Green, P.G.
President

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INTRODUCTION

2M Environmental Services, LLC. (2M), on behalf of Plains Pipeline L.P. (Plains), has prepared this Closure Request and Remediation Summary for the Release Site known as Mewbourne Mad Dog 26 MP State Com No. 001H. The legal description of the Release Site is Unit Letter "M", Section 26, Township 23 South, Range 34 East, in Lea County, New Mexico. The subject property is located on New Mexico State Trust Land. The Release Site GPS coordinates are 32.2687600º North and 103.4482740º West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site Details and Confirmation Soil Sample Location Map.

On August 19, 2018, Plains discovered a leak had developed on the Tri-Plex pump due to mechanical failure, resulting in the release. Approximately nine (9) barrels of crude oil were released with approximately six (6) barrels recovered, resulting in a net loss of approximately three (3) barrels of crude oil. On August 21, 2018, Plains filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix D. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 26, Township 23 South, Range 34 East. A reference map utilized by the NMOCD Hobbs District Office, indicates groundwater should be encountered at approximately one hundred fifty (150) feet below ground surface (bgs). No water wells were observed within one-thousand (1,000) feet of the Release Site. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Mad Dog 26 MP State Com No. 001H Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On August 28, 2018, 2M commenced excavation activities at the Release Site. On September 4, 2018, fourteen (14) confirmation soil samples were collected from the excavated area. Samples identified as Bottomhole-1 @ 6", Bottomhole-2 @ 3', Bottomhole-3 @ 3', Bottomhole-4 @ 3', Bottomhole-5 @ 5', and Bottomhole-6 @ 5' were collected from the base of the excavated area and samples identified as Bottomhole-5 NW @ 2', Bottomhole-5 SW @ 2', Bottomhole-5 EW @ 2', Bottomhole-5 WW @ 2', Bottomhole-6 NW @ 2', Bottomhole-6 SW @ 2', Bottomhole-6 EW @ 2', and Bottomhole-6 WW @ 2') were collected from the sidewalls of the excavated area. Soil samples were submitted to the laboratory and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory

analytical results indicated additional excavation activities were necessary in the area represented by soil samples Bottomhole-2 @ 3', Bottomhole-3 @ 3', Bottomhole-4 @ 3', Bottomhole-5 WW @ 2', and Bottomhole-6 SW @ 2'. Please reference Figure 2 for site details and soil sampling locations. A composite waste characterization soil sample was collected from the impacted stockpile and submitted to the laboratory. The analytical results are attached to this report.

On October 11, 2018, after additional excavation activities, six (6) confirmation soil samples (Bottomhole-2 @ 3.5', Bottomhole-3 @ 3.5', Bottomhole-4 @ 3.5', Bottomhole-5 WW @ 3', Bottomhole-6 SW @ 2', and Bottomhole-6 SW @ 3') were collected from the excavated area and submitted to the laboratory for BTEX and TPH analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVIES

On December 5, through December 7, 2018, Plains transported one hundred eighty (180) cubic yards of material to Lazy Ace Landfarm (NMOCD Permit #NM-01-0041), located west of Eunice, New Mexico. Please reference Lazy Ace Landfarm Manifests attached as Appendix E. The excavated area was backfilled with non-impacted, locally obtained soil and contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results, Plains requests NMOCD and NMSLO grant Site Closure Status to the Mewbourne Mad Dog 26 MP State Com No. 001H incident.

LIMITATIONS

2M has prepared this Closure Request and Remediation Summary to the best of its ability. No other warranty, expressed or implied, is made or intended. 2M has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. 2M has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. 2M has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. 2M also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Pipeline L.P.. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of 2M and/or Plains Pipeline L.P..

DISTRIBUTION

Copy 1: Christina Hernandez
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Oil Conservation Division (District 1)
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Hobbs, New Mexico 88240

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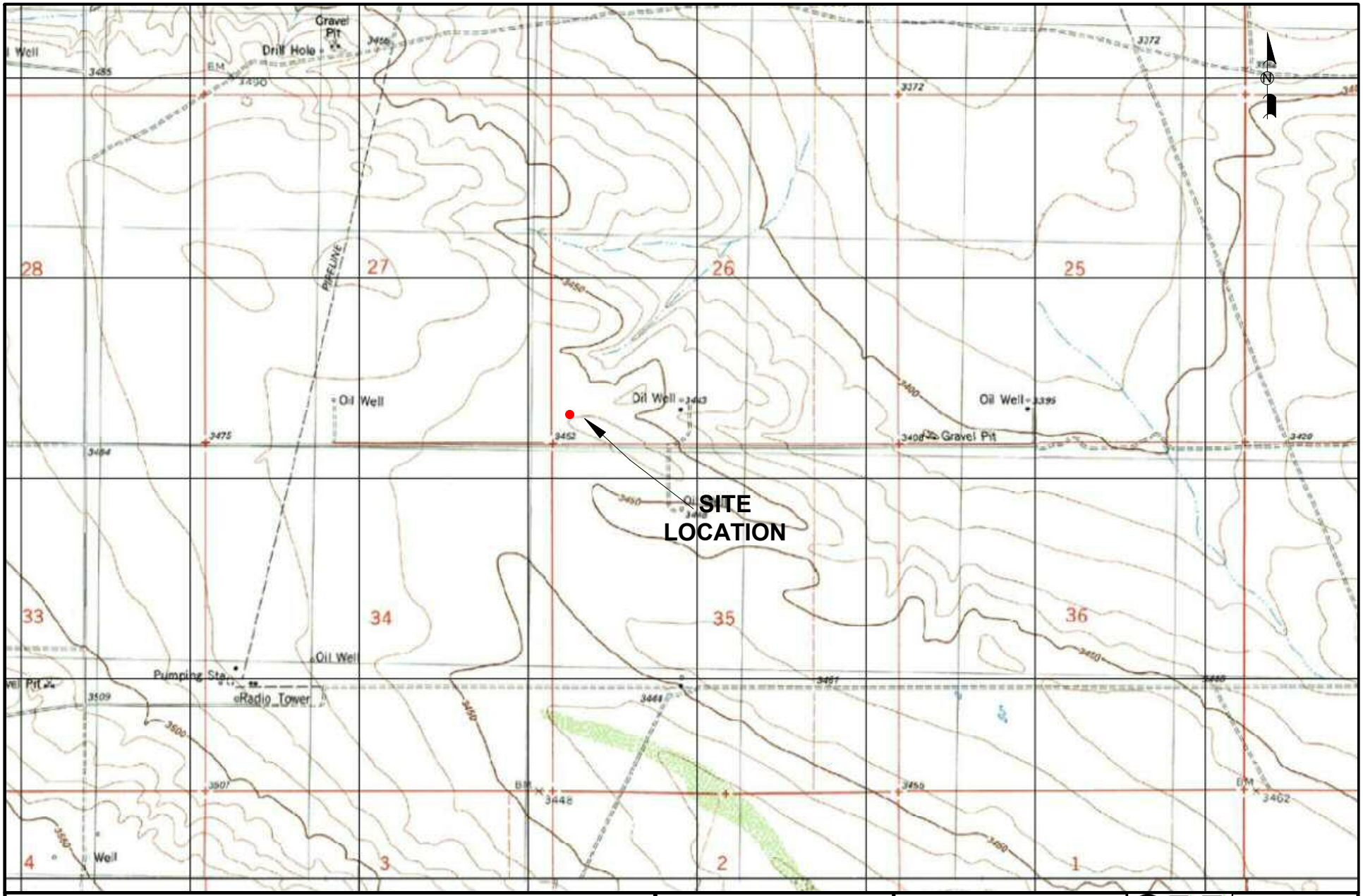


LEGEND:

- Surface Water
- Native Grassland
- Tanks

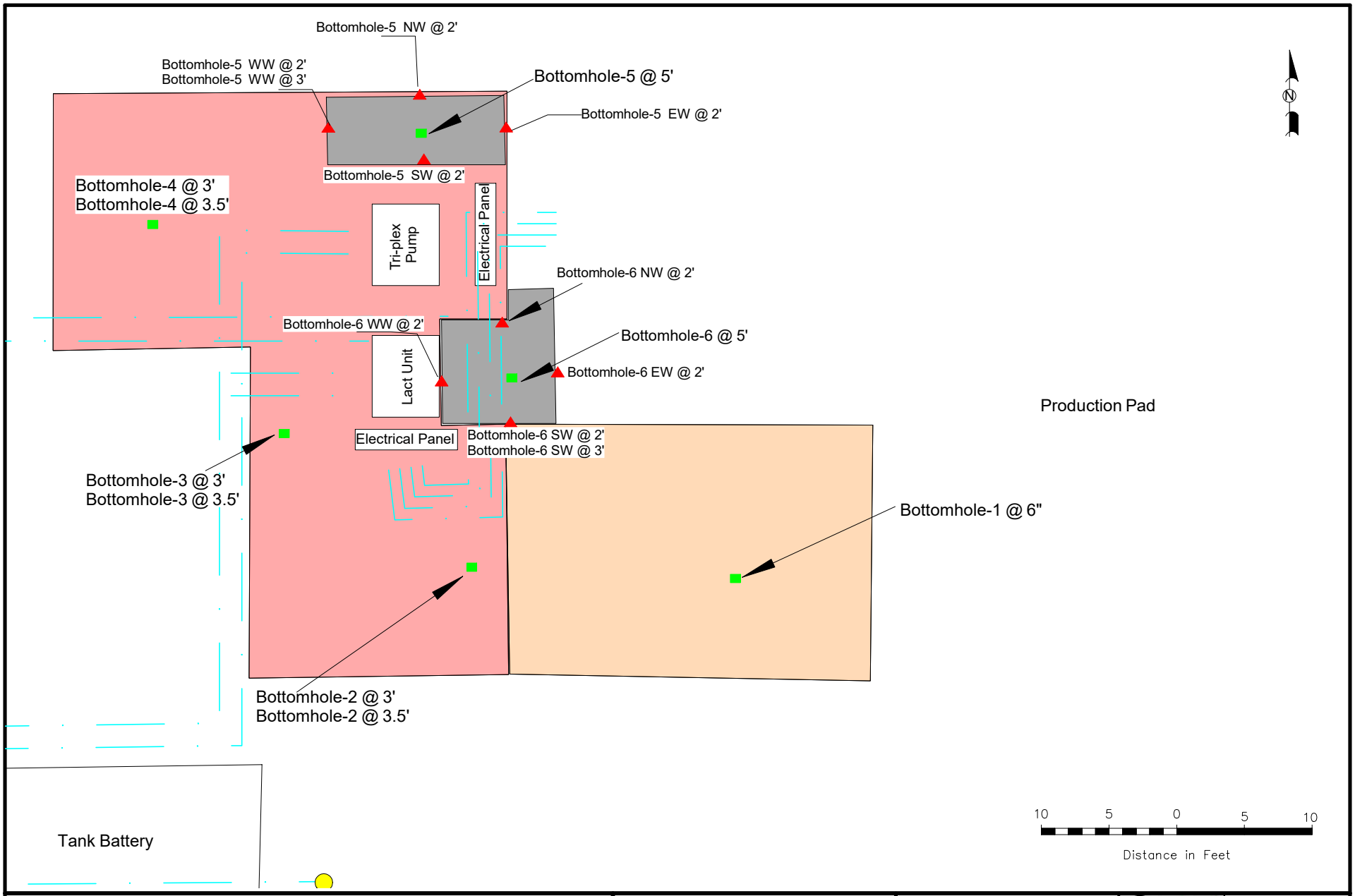
2000 1000 0 1000 2000

Distance in Feet

Figure 1
Site Location Map
Plains All American Pipeline
Mewbourne Mad Dog 26 MP State
COM 001H
Lea County, NM

Scale: 1" = 2000'
CAD By: NPC
Checked By: MG
Date: November 6, 2018
Lat. N 32.2687600 Long. W 103.4482740

2M Environmental Services, LLC



LEGEND:

- Flow Line
- Excavation 5 feet bgs
- Excavation 3.5 feet bgs
- Excavation 6 inches bgs
- Confirmation Grab Soil Sample Location
- Side Wall Confirmation Soil Sample Location

Figure 2
Site Details & Confirmation Soil Sample Location Map Plains All American Pipeline Mewbourne Mad Dog 26 MP State COM 001H
Lea County, NM

Scale: 1" = 10'	
CAD By: NPC	
Checked By: MG	
Draft: November 6, 2018	
Lat. N 32.2687600 Long. W 103.4482740	

2M Environmental Services, LLC

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

Plains All American Pipeline

MEWBOURNE MAD DOG 26 MP STATE COM No. 001H RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				1,000 mg/Kg	600 mg/Kg
Bottomhole-1 @ 6"	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	321	103	424	71.6
Bottomhole-2 @ 3'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	161	3,620	459	**4,240**	23.2
Bottomhole-3 @ 3'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	235	4,900	634	**5,769**	59.1
Bottomhole-4 @ 3'	9/4/2018	ND	ND	0.00895	0.0523	0.0213	0.0736	0.08255	716	9,150	1,280	**11,146**	52.3
Bottomhole-5 @ 5'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	407	77.6	484.6	66.0
Bottomhole-5 NW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	346	52.7	398.7	113
Bottomhole-5 SW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	760	108	868	73.3
Bottomhole-5 EW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	295	49.4	344.4	62.1
Bottomhole-5 WW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	215	4,370	519	**5,104**	49.3
Botttomhole-6 @ 5'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	233	61.2	294.2	131
Bottomhole-6 NW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	221	43.0	264.0	124
Bottomhole-6 SW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	48.6	1,570	186	**1,804.6**	7.59
Bottomhole-6 EW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	172	27.3	199.3	55.4
Bottomhole-6 WW @ 2'	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	92.1	ND	92.1	124
Bottomhole-2 @ 3.5'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	147	33.1	180.1	-
Bottomhole-3 @ 3.5'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	221	33.3	254.3	-
Bottomhole-4 @ 3.5'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	78.8	ND	78.8	-
Bottomhole-5 WW @ 3'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	30.8	617	90.7	738.5	-
Bottomhole-6 SW @ 2'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	231	49.1	280.1	-
Bottomhole-6 SW @ 3'	10/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	78.9	ND	78.9	-

Site Name: *Mewbourne Mad Dog 26 MP State COM 001H Release* **Date:** *12/28/2018*
2M Environmental Project #: *8151-06* **Site Location:** *Lea County, New Mexico*

Photographic Documentation

Photograph No. 1 **Date:** **8/28/2018** **Direction:** **Northeast** **Description:** **View of Impacted Area.**	
Photograph No. 2 **Date:** **8/28/2018** **Direction:** **West** **Description:** **View of Impacted Area.**	

Site Name: *Mewbourne Mad Dog 26 MP State COM 001H Release* **Date:** *12/28/2018*
2M Environmental Project #: *8151-06* **Site Location:** *Lea County, New Mexico*

Photographic Documentation

Photograph No. 3 **Date:** **10/4/2018** **Direction:** **Southwest** **Description:** **View of excavation activities.**	
Photograph No. 4 **Date:** **9/4/2018** **Direction:** **Northwest** **Description:** **View of excavation activities.**	

Site Name: *Mewbourne Mad Dog 26 MP State COM 001H Release* **Date:** *12/28/2018*
2M Environmental Project #: *8151-06* **Site Location:** *Lea County, New Mexico*

Photographic Documentation

Photograph No. 5 **Date:** **12/7/2018** **Direction:** **Northwest** **Description:** **View of remediated area.**	
Photograph No. 6 **Date:** **12/7/2018** **Direction:** **North** **Description:** **View of remediated area.**	

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

PBELAB

Analytical Report

Prepared for:

Matt Green

2M Environmental Services, LLC.

1219 W. University Blvd.

Odessa, TEXAS 79764

Project: Plains Mad Dog 26

Project Number: [none]

Location: Lea County, New Mexico

Lab Order Number: 8I07008

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 09/14/18

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole-1 @ 6"	8I07008-01	Soil	09/04/18 09:00	09-07-2018 14:06
Bottomhole-2 @ 3'	8I07008-02	Soil	09/04/18 09:15	09-07-2018 14:06
Bottomhole-3 @ 3'	8I07008-03	Soil	09/04/18 09:30	09-07-2018 14:06
Bottomhole-4 @ 3'	8I07008-04	Soil	09/04/18 09:45	09-07-2018 14:06
Bottomhole-5 @ 5'	8I07008-05	Soil	09/04/18 10:00	09-07-2018 14:06
Bottomhole-5 NW @ 2'	8I07008-06	Soil	09/04/18 10:15	09-07-2018 14:06
Bottomhole-5 SW @ 2'	8I07008-07	Soil	09/04/18 10:30	09-07-2018 14:06
Bottomhole-5 EW @ 2'	8I07008-08	Soil	09/04/18 10:45	09-07-2018 14:06
Bottomhole-5 WW @ 2'	8I07008-09	Soil	09/04/18 11:00	09-07-2018 14:06
Bottomhole-6 @ 5'	8I07008-10	Soil	09/04/18 11:15	09-07-2018 14:06
Bottomhole-6 NW @ 2'	8I07008-12	Soil	09/04/18 11:30	09-07-2018 14:06
Bottomhole-6 SW @ 2'	8I07008-13	Soil	09/04/18 11:45	09-07-2018 14:06
Bottomhole-6 EW @ 2'	8I07008-14	Soil	09/04/18 12:00	09-07-2018 14:06
Bottomhole-6 WW @ 2'	8I07008-15	Soil	09/04/18 12:15	09-07-2018 14:06
Stockpile	8I07008-16	Soil	09/04/18 12:30	09-07-2018 14:06

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-1 @ 6''

8I07008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*75-125*		*P8I1105*	*09/11/18*	*09/11/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*108 %*	*75-125*		*P8I1105*	*09/11/18*	*09/11/18*	*EPA 8021B*	
C6-C12	ND	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C12-C28	**321**	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C28-C35	**103**	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
Surrogate: 1-Chlorooctane		*92.8 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Surrogate: o-Terphenyl		*86.9 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**424**	26.3	mg/kg dry	1	[CALC]	09/10/18	09/10/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**71.6**	1.05	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-2 @ 3'

8I07008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8I1105	09/11/18	09/11/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*75-125*		*P8I1105*	*09/11/18*	*09/11/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*75-125*		*P8I1105*	*09/11/18*	*09/11/18*	*EPA 8021B*	
C6-C12	**161**	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C12-C28	**3620**	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C28-C35	**459**	26.3	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**4240**	26.3	mg/kg dry	1	[CALC]	09/10/18	09/10/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**23.2**	1.05	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-3 @ 3'

8I07008-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	**235**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C12-C28	**4900**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C28-C35	**634**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
Surrogate: 1-Chlorooctane		*117 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**5770**	28.4	mg/kg dry	1	[CALC]	09/10/18	09/10/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**59.1**	1.14	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-4 @ 3'

8I07008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	**0.00895**	0.00538	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	**0.0523**	0.0215	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	**0.0213**	0.0108	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	**716**	134	mg/kg dry	5	P8I1102	09/10/18	09/10/18	TX 1005	
>C12-C28	**9150**	134	mg/kg dry	5	P8I1102	09/10/18	09/10/18	TX 1005	
>C28-C35	**1280**	134	mg/kg dry	5	P8I1102	09/10/18	09/10/18	TX 1005	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Surrogate: o-Terphenyl		*88.5 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**11100**	134	mg/kg dry	5	[CALC]	09/10/18	09/10/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**52.3**	1.08	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 @ 5'

8I07008-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*113 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	27.5	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C12-C28	**407**	27.5	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
>C28-C35	**77.6**	27.5	mg/kg dry	1	P8I1102	09/10/18	09/10/18	TX 1005	
Surrogate: 1-Chlorooctane		*99.5 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Surrogate: o-Terphenyl		*90.3 %*	*70-130*		*P8I1102*	*09/10/18*	*09/10/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**484**	27.5	mg/kg dry	1	[CALC]	09/10/18	09/10/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**66.0**	1.10	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 NW @ 2'

8I07008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00119	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0119	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00595	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0238	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0119	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*117 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	29.8	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**346**	29.8	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**52.7**	29.8	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*115 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**398**	29.8	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**113**	1.19	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**16.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 SW @ 2'

8I07008-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.2 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*124 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**760**	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**108**	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*128 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**868**	27.2	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**73.3**	1.09	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 EW @ 2'

8I07008-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*119 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	28.7	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**295**	28.7	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**49.4**	28.7	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*88.4 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*81.6 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**344**	28.7	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**62.1**	1.15	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 WW @ 2'

8I07008-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	**215**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**4370**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**519**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**5110**	28.4	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**49.3**	1.14	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 @ 5'

8I07008-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*116 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**233**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**61.2**	28.4	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**294**	28.4	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**131**	1.14	mg/kg dry	1	P8I1109	09/11/18	09/11/18	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 NW @ 2'

8I07008-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*119 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**221**	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**43.0**	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*90.0 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*83.4 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**264**	26.6	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**124**	1.06	mg/kg dry	1	P8I1109	09/11/18	09/12/18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 SW @ 2'

8I07008-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*130 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	**48.6**	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**1570**	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**186**	27.2	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*99.1 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**1800**	27.2	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.59**	1.09	mg/kg dry	1	P8I1109	09/11/18	09/12/18	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 EW @ 2'

8I07008-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*118 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**172**	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**27.3**	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*91.3 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**199**	26.6	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**55.4**	1.06	mg/kg dry	1	P8I1109	09/11/18	09/12/18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 WW @ 2'

8I07008-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*116 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	ND	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**92.1**	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	ND	26.6	mg/kg dry	1	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*96.4 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*90.0 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**92.1**	26.6	mg/kg dry	1	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**124**	1.06	mg/kg dry	1	P8I1109	09/11/18	09/12/18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Stockpile

8I07008-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Toluene	**0.0389**	0.0104	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Ethylbenzene	**0.0534**	0.00521	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (p/m)	**0.269**	0.0208	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Xylene (o)	**0.158**	0.0104	mg/kg dry	1	P8I1106	09/11/18	09/12/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*74.5 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*76.5 %*	*75-125*		*P8I1106*	*09/11/18*	*09/12/18*	*EPA 8021B*	
C6-C12	**918**	130	mg/kg dry	5	P8I1102	09/10/18	09/11/18	TX 1005	
>C12-C28	**9770**	130	mg/kg dry	5	P8I1102	09/10/18	09/11/18	TX 1005	
>C28-C35	**1150**	130	mg/kg dry	5	P8I1102	09/10/18	09/11/18	TX 1005	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Surrogate: o-Terphenyl		*84.2 %*	*70-130*		*P8I1102*	*09/10/18*	*09/11/18*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**11800**	130	mg/kg dry	5	[CALC]	09/10/18	09/11/18	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**86.0**	1.04	mg/kg dry	1	P8I1109	09/11/18	09/12/18	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P8I1001	09/10/18	09/10/18	ASTM D2216	

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1102 - TX 1005										
Blank (P8I1102-BLK1)				Prepared & Analyzed: 09/10/18						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*50.0*		*100*	*70-130*			
LCS (P8I1102-BS1)				Prepared & Analyzed: 09/10/18						
C6-C12	1080	25.0	mg/kg wet	1000		108	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*50.0*		*100*	*70-130*			
LCS Dup (P8I1102-BSD1)				Prepared & Analyzed: 09/10/18						
C6-C12	906	25.0	mg/kg wet	1000		90.6	75-125	17.2	20	
>C12-C28	916	25.0	"	1000		91.6	75-125	13.2	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*43.6*		*"*	*50.0*		*87.2*	*70-130*			
Duplicate (P8I1102-DUP1)	**Source: 8I07008-16**			Prepared: 09/10/18 Analyzed: 09/11/18						
C6-C12	966	130	mg/kg dry		918			5.11	20	
>C12-C28	10600	130	"		9770			7.95	20	
Surrogate: 1-Chlorooctane	*107*		*"*	*104*		*103*	*70-130*			
Surrogate: o-Terphenyl	*44.7*		*"*	*52.1*		*85.9*	*70-130*			
Batch P8I1105 - General Preparation (GC)										
Blank (P8I1105-BLK1)				Prepared & Analyzed: 09/11/18						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 4-Bromofluorobenzene	*0.0641*		*"*	*0.0600*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0561*		*"*	*0.0600*		*93.6*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1105 - General Preparation (GC)										
LCS (P8I1105-BS1)				Prepared & Analyzed: 09/11/18						
Benzene	0.0997	0.00100	mg/kg wet	0.100		99.7	70-130			
Toluene	0.107	0.0100	"	0.100		107	70-130			
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130			
Xylene (p/m)	0.225	0.0200	"	0.200		112	70-130			
Xylene (o)	0.119	0.0100	"	0.100		119	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0655*		*"*	*0.0600*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0651*		*"*	*0.0600*		*109*	*75-125*			
LCS Dup (P8I1105-BSD1)				Prepared & Analyzed: 09/11/18						
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130	2.36	20	
Toluene	0.110	0.0100	"	0.100		110	70-130	2.17	20	
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130	0.330	20	
Xylene (p/m)	0.227	0.0200	"	0.200		114	70-130	1.05	20	
Xylene (o)	0.114	0.0100	"	0.100		114	70-130	4.13	20	
Surrogate: 1,4-Difluorobenzene	*0.0660*		*"*	*0.0600*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0670*		*"*	*0.0600*		*112*	*75-125*			
Matrix Spike (P8I1105-MS1)		**Source: 8I10009-17**		Prepared & Analyzed: 09/11/18						
Benzene	0.0914	0.00120	mg/kg dry	0.120	ND	75.8	80-120			QM-07
Toluene	0.0940	0.0120	"	0.120	ND	78.0	80-120			QM-07
Ethylbenzene	0.101	0.00602	"	0.120	ND	84.2	80-120			
Xylene (p/m)	0.176	0.0241	"	0.241	ND	72.9	80-120			QM-07
Xylene (o)	0.0974	0.0120	"	0.120	ND	80.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.0723*		*150*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0761*		*"*	*0.0723*		*105*	*75-125*			
Matrix Spike Dup (P8I1105-MSD1)		**Source: 8I10009-17**		Prepared & Analyzed: 09/11/18						
Benzene	0.103	0.00120	mg/kg dry	0.120	ND	85.4	80-120	11.8	20	
Toluene	0.108	0.0120	"	0.120	ND	89.5	80-120	13.7	20	
Ethylbenzene	0.128	0.00602	"	0.120	ND	106	80-120	22.9	20	QM-07
Xylene (p/m)	0.219	0.0241	"	0.241	ND	90.9	80-120	22.0	20	QM-07
Xylene (o)	0.119	0.0120	"	0.120	ND	98.5	80-120	19.7	20	
Surrogate: 1,4-Difluorobenzene	*0.0796*		*"*	*0.0723*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0857*		*"*	*0.0723*		*119*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1106 - General Preparation (GC)										
Blank (P8I1106-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	*0.0535*		*"*	*0.0600*		*89.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0632*		*"*	*0.0600*		*105*	*75-125*			
LCS (P8I1106-BS1)				Prepared & Analyzed: 09/11/18						
Benzene	0.0956	0.00100	mg/kg wet	0.100		95.6	70-130			
Toluene	0.102	0.0100	"	0.100		102	70-130			
Ethylbenzene	0.111	0.00500	"	0.100		111	70-130			
Xylene (p/m)	0.211	0.0200	"	0.200		106	70-130			
Xylene (o)	0.117	0.0100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0653*		*"*	*0.0600*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0672*		*"*	*0.0600*		*112*	*75-125*			
LCS Dup (P8I1106-BSD1)				Prepared & Analyzed: 09/11/18						
Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130	5.37	20	
Toluene	0.107	0.0100	"	0.100		107	70-130	4.54	20	
Ethylbenzene	0.118	0.00500	"	0.100		118	70-130	6.76	20	
Xylene (p/m)	0.226	0.0200	"	0.200		113	70-130	6.85	20	
Xylene (o)	0.118	0.0100	"	0.100		118	70-130	0.561	20	
Surrogate: 1,4-Difluorobenzene	*0.0668*		*"*	*0.0600*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0726*		*"*	*0.0600*		*121*	*75-125*			
Matrix Spike (P8I1106-MS1)	**Source: 8I07008-03**			Prepared: 09/11/18 Analyzed: 09/12/18						
Benzene	0.0206	0.00114	mg/kg dry	0.114	ND	18.1	80-120			QM-07
Toluene	0.0131	0.0114	"	0.114	0.00228	9.48	80-120			QM-07
Ethylbenzene	0.00951	0.00568	"	0.114	0.00510	3.88	80-120			QM-07
Xylene (p/m)	0.0156	0.0227	"	0.227	0.0188	NR	80-120			QM-07
Xylene (o)	0.0105	0.0114	"	0.114	0.00570	4.26	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	*0.0739*		*"*	*0.0682*		*108*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0926*		*"*	*0.0682*		*136*	*75-125*			*S-GC*

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1106 - General Preparation (GC)										
Matrix Spike Dup (P8I1106-MSD1)		**Source: 8I07008-03**		Prepared: 09/11/18 Analyzed: 09/12/18						
Benzene	0.0229	0.00114	mg/kg dry	0.114	ND	20.2	80-120	10.7	20	QM-07
Toluene	0.0145	0.0114	"	0.114	0.00228	10.7	80-120	12.3	20	QM-07
Ethylbenzene	0.0107	0.00568	"	0.114	0.00510	4.89	80-120	23.0	20	QM-07
Xylene (p/m)	0.0160	0.0227	"	0.227	0.0188	NR	80-120	NR	20	QM-07
Xylene (o)	0.0126	0.0114	"	0.114	0.00570	6.09	80-120	35.4	20	QM-07
Surrogate: 4-Bromofluorobenzene	*0.0973*		*"*	*0.0682*		*143*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0734*		*"*	*0.0682*		*108*	*75-125*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1001 - * DEFAULT PREP *** **										
Blank (P8I1001-BLK1)				Prepared & Analyzed: 09/10/18						
% Moisture	ND	0.1	%							
Duplicate (P8I1001-DUP1)		**Source: 8I07005-04**		Prepared & Analyzed: 09/10/18						
% Moisture	7.0	0.1	%		9.0			25.0	20	
Duplicate (P8I1001-DUP2)		**Source: 8I07006-17**		Prepared & Analyzed: 09/10/18						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P8I1001-DUP3)		**Source: 8I07008-16**		Prepared & Analyzed: 09/10/18						
% Moisture	5.0	0.1	%		4.0			22.2	20	
Batch P8I1109 - * DEFAULT PREP *** **										
Blank (P8I1109-BLK1)				Prepared & Analyzed: 09/11/18						
Chloride	ND	1.00	mg/kg wet							
LCS (P8I1109-BS1)				Prepared & Analyzed: 09/11/18						
Chloride	404	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P8I1109-BSD1)				Prepared & Analyzed: 09/11/18						
Chloride	404	1.00	mg/kg wet	400		101	80-120	0.0446	20	
Duplicate (P8I1109-DUP1)		**Source: 8I07008-01**		Prepared & Analyzed: 09/11/18						
Chloride	72.1	1.05	mg/kg dry		71.6			0.645	20	
Duplicate (P8I1109-DUP2)		**Source: 8I07008-12**		Prepared: 09/11/18 Analyzed: 09/12/18						
Chloride	125	1.06	mg/kg dry		124			0.956	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I1109 - * DEFAULT PREP *** **										
Matrix Spike (P8I1109-MS1)	**Source: 8I07008-01**			Prepared & Analyzed: 09/11/18						
Chloride	585	1.05	mg/kg dry	526	71.6	97.6	80-120			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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: Brent Barron Date: 9/14/2018

Brent Barron, Laboratory Director/Technical Director

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

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: 2M Environmental Services, LLC.
Company Address: 1219 W. University Blvd.
City/State/Zip: Odessa, Texas 79764
Telephone No: (432)230-3763 Fax No:
Sampler Signature:
e-mail: mgreen@2m-environmental.com
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Project Name: Plains Mad Dog 26
Project #: SRS #:
Project Loc: Lea County, NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 810 7008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 Ext TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	TCLP Benzene	TCLP BTEX	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
01	Bottomhole-1 @ 6"			9/4/2018	900		1	x								S	x								x			x				X
02	Bottomhole-2 @ 3'			9/4/2018	915		1	x								S	x								x			x				X
03	Bottomhole-3 @ 3'			9/4/2018	930		1	x								S	x								x			x				X
04	Bottomhole-4 @ 3'			9/4/2018	945		1	x								S	x								x			x				X
05	Bottomhole-5 @ 5'			9/4/2018	1000		1	x								S	x								x			x				X
06	Bottomhole-5 NW @ 2'			9/4/2018	1015		1	x								S	x								x			x				X
07	Bottomhole-5 SW @ 2'			9/4/2018	1030		1	x								S	x								x			x				X
08	Bottomhole-5 EW @ 2'			9/4/2018	1045		1	x								S	x								x			x				X
09	Bottomhole-5 WW @ 2'			9/4/2018	1100		1	x								S	x								x			x				X
10	Bottomhole-6 @ 5'			9/4/2018	1115		1	x								S	x								x			x				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	9-6-18			9-6-18	14:05
Relinquished by:	Date	Time	Received by:	Date	Time
	9-6-18				
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				9-7-18	7:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: 2M Environmental Services, LLC.
Company Address: 1219 W. University Blvd.
City/State/Zip: Odessa, Texas 79764
Telephone No: (432)230-3763 Fax No:
Sampler Signature:

Project Name: Plains Mad Dog 26
Project #: SRS #:
Project Loc: Lea County, NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: mgreen@2m-environmental.com
rblake@2m-environmental.com
ALGroves@paalp.com

(lab use only)
ORDER #: 8107008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: 8015M	TPH: TX 1005 Ext	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	TCLP Benzene	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	01 (same as sample 10)			9/4/2018	1115		1	x								S	x									x			x				X
2	02 11			9/4/2018	1130		1	x								S	x									x			x				X
3	03			9/4/2018	1145		1	x								S	x									x			x				X
4	04			9/4/2018	1200		1	x								S	x									x			x				X
5	05			9/4/2018	1215		1	x								S	x									x			x				X
6	06			9/4/2018	1230		1	x								S	x									x			x				X

Special Instructions:

	Date	Time		Date	Time
Relinquished by:	9/6/18		Received by:	9-6-18	14:05
Relinquished by:	9-6-18		Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	9-7-18	7:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

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

PBELAB

Analytical Report

Prepared for:

Matt Green
2M Environmental Services, LLC.
1219 W. University Blvd.
Odessa, TEXAS 79764

Project: Plains Mad Dog 26
Project Number: [none]
Location: Lea County, New Mexico

Lab Order Number: 8I07010

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 09/27/18

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: [none]	
Odessa TEXAS, 79764	Project Manager: Matt Green	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC	8I07010-01	Soil	09/04/18 11:15	09-07-2018 14:06

TCLP Metals, RCI and TCLP BTEX analysis were subcontracted to Test America. Their report is attached to the back of this report. Their certification number is T104704223-10-6-TX.

WC

8I07010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Reactive Cyanide	ND	0.250	mg/kg	1	P8I2704	09/18/18	09/20/18	SW846 9010B	SUB-1
Ignitability by Flashpoint	> 160		°F	1	P8I2704	09/26/18	09/26/18	ASTM D93-80	SUB-1
pH	**8.90**	0.10	pH Units	1	P8I2704	09/17/18	09/17/18	EPA 9045B	SUB-1
Reactive Sulfide	ND	50.0	mg/kg	1	P8I2704	09/18/18	09/21/18	SW846 9030B	SUB-1
TCLP Metals 1311 by EPA / Standard Methods									
Mercury	ND	0.000250	mg/L	1	P8I2706	09/18/18	09/18/18	EPA 7470A	SUB-1
Arsenic	ND	0.100	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Barium	**0.350**	0.200	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Cadmium	ND	0.0500	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Chromium	ND	0.100	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Lead	ND	0.100	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Selenium	ND	0.400	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
Silver	ND	0.100	mg/L	1	P8I2706	09/17/18	09/18/18	EPA 6010B	SUB-1
TCLP Volatile Organic Compounds by EPA Method 1311/8260B									
Benzene	ND	25.0	ug/l	1	P8I2706	09/18/18	09/18/18	EPA 8260B	SUB-1
Toluene	ND	25.0	ug/l	1	P8I2706	09/18/18	09/18/18	EPA 8260B	SUB-1
Ethylbenzene	ND	25.0	ug/l	1	P8I2706	09/18/18	09/18/18	EPA 8260B	SUB-1
Xylene (p/m)	ND	25.0	ug/l	1	P8I2706	09/18/18	09/18/18	EPA 8260B	SUB-1
Xylene (o)	ND	25.0	ug/l	1	P8I2706	09/18/18	09/18/18	EPA 8260B	SUB-1
Physical Parameters by APHA/ASTM/EPA Methods									
Free Liquid	PASS		N/A	1	P8I2501	09/10/18	09/10/18	EPA 9095	

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.

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8I2501 - * DEFAULT PREP *** **										
Duplicate (P8I2501-DUP1)		**Source: 8H30008-01**		Prepared & Analyzed: 09/05/18						
Free Liquid	PASS		N/A		0.00				200	
Duplicate (P8I2501-DUP2)		**Source: 8I07010-01**		Prepared & Analyzed: 09/10/18						
Free Liquid	PASS		N/A		PASS				200	
Duplicate (P8I2501-DUP3)		**Source: 8I21002-02**		Prepared & Analyzed: 09/25/18						
Free Liquid	PASS		N/A		0.00				200	

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.

Notes and Definitions

SUB-1	Subcontract of analyte/analysis to Test America TCEQ/NELAC # T104704223-10-6-TX
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 9/27/2018

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.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Project Manager: Matt Green

Company Name: 2M Environmental Services, LLC.

Company Address: 1219 W. University Blvd.

City/State/Zip: Odessa, Texas 79764

Telephone No: (432)230-3763 Fax No:

Sampler Signature:

Project Name: Plains Mad Dog 26

Project #: SRS #:

Project Loc: Lea County, NM

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

e-mail: mgreen@2m-environmental.com
rblake@2m-environmental.com
ALGroves@paalp.com

(lab use only)
ORDER #: 8109010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: X / TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 Ext TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	WC			9/4/2018	1115		2	x								S					x					x	x		x	x		X

Special Instructions:

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: 7.2 °C Factor: .9

	Date	Time		Date	Time
Relinquished by:	9-6-18		Received by: Joel Menlyn	9-6-18	14:05
Relinquished by: Joel Menlyn	9-6-18		Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Ashley Ygoa	9-7-18	2:04

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron — **Project Name:** SUBCONTRACT

Company Name: PBEL — **Project #:**

Company Address: 1400 Rankin HWY — **Project Loc:**

City/State/Zip: Midland Texas 79701 — **PO #:**

Telephone No: 432-661-4184 — Fax No: — **Report Format:** X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A — e-mail: brentbarron@pbelab.com

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250 poly 1	HCl 2x 40mL VOA	H_2SO_4 1 Amber 500 250 poly	NaOH /ZNAC 250 Poly 1	$Na_2S_2O_3$	None Poly 500mL 250mL Glass Amber 1000 500 mL	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: RCI	TCLP BENZENE 8260	TCLP Metals	Ignitibility	TCLP BTEX 8260B	Paint Filter 9095								2 Day TAT	Standard TAT 4 DAY
	8I07010-01			9/4/2018	11:15		1	X								S			X		X		X	X									X

Special Instructions:

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received °C
Adjusted °C Factor

Relinquished by:	Date	Time		Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-172496-1
Client Project/Site: 8I07010

For:
Permian Basin Environmental Lab LP
10014 South County Road 1213
Midland, Texas 79706

Attn: Brent Barron

C. Lance Tigrett

Authorized for release by:
9/24/2018 7:17:53 AM

C. Lance Tigrett, Project Manager II
(713)690-4444
lance.tigrett@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Job ID: 600-172496-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-172496-1

Comments
No additional comments.

Receipt
The sample was received on 9/12/2018 9:55 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted due to limited volume: 8I07010-01 (600-172496-1), (600-172496-A-1-D MS) and (600-172496-A-1-C MSD). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The TCLP leachate blank for Prep Batch 247525 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
7470A	Mercury (CVAA)	SW846	TAL HOU
7.4.4	Reactive Sulfide	EPA	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9045C	Corrosivity as pH	SW846	TAL HOU
D92	Flashpoint	ASTM	TAL HOU
1311	TCLP Extraction	SW846	TAL HOU
1311	Toxicity Characteristic Leaching Procedure (ZHE)	SW846	TAL HOU
3010A	Preparation, Total Metals	SW846	TAL HOU
5030B	Purge and Trap on Leachates	SW846	TAL HOU
7.3.3	Cyanide, Reactive	SW846	TAL HOU
7.3.4	Sulfide, Reactive	SW846	TAL HOU
7470A	Preparation, Mercury	SW846	TAL HOU

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-172496-1	8I07010-01	Solid	09/04/18 11:15	09/12/18 09:55

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Client Sample ID: 8I07010-01
Date Collected: 09/04/18 11:15
Date Received: 09/12/18 09:55

Lab Sample ID: 600-172496-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.8	U	25	2.8	ug/L			09/18/18 15:44	5
Ethylbenzene	6.5	U	25	6.5	ug/L			09/18/18 15:44	5
Toluene	2.8	U	25	2.8	ug/L			09/18/18 15:44	5
Xylenes, Total	9.9	U	25	9.9	ug/L			09/18/18 15:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*09/18/18 15:44*	*5*
Dibromofluoromethane	*108*		*62 - 130*		*09/18/18 15:44*	*5*
Toluene-d8 (Surr)	*118*		*70 - 130*		*09/18/18 15:44*	*5*
4-Bromofluorobenzene	*109*		*67 - 139*		*09/18/18 15:44*	*5*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.013	U	0.10	0.013	mg/L		09/17/18 12:30	09/18/18 14:26	1
Arsenic	0.029	U	0.10	0.029	mg/L		09/17/18 12:30	09/18/18 14:26	1
Barium	**0.35**	**B**	0.20	0.0053	mg/L		09/17/18 12:30	09/18/18 14:26	1
Cadmium	**0.0030**	**J**	0.050	0.0028	mg/L		09/17/18 12:30	09/18/18 14:26	1
Chromium	**0.057**	**J**	0.10	0.016	mg/L		09/17/18 12:30	09/18/18 14:26	1
Lead	**0.029**	**J**	0.10	0.022	mg/L		09/17/18 12:30	09/18/18 14:26	1
Selenium	0.029	U	0.40	0.029	mg/L		09/17/18 12:30	09/18/18 14:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	U	0.00025	0.00010	mg/L		09/18/18 07:08	09/18/18 13:46	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14	U	49	14	mg/Kg		09/18/18 13:00	09/21/18 18:00	1
Cyanide, Reactive	0.084	U	0.25	0.084	mg/Kg		09/18/18 13:00	09/20/18 01:23	1
pH	**8.9**	**H**	0.01	0.01	SU			09/17/18 16:54	1
Flashpoint	**>160**		1.00	1.00	Degrees F			09/21/18 12:10	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(50-134)	(62-130)	(70-130)	(67-139)
LCS 600-247667/5	Lab Control Sample	106	111	115	115
LCSD 600-247667/6	Lab Control Sample Dup	108	113	112	119
MB 600-247667/9	Method Blank	108	108	116	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(50-134)	(62-130)	(70-130)	(67-139)
600-172496-1	8I07010-01	105	108	118	109
600-172496-1 MS	8I07010-01	102	108	111	110
600-172496-1 MSD	8I07010-01	108	115	114	116
LB 600-247548/1-A	Method Blank	105	108	116	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-247667/9
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.56	U	5.0	0.56	ug/L			09/18/18 14:59	1
Ethylbenzene	1.3	U	5.0	1.3	ug/L			09/18/18 14:59	1
Toluene	0.55	U	5.0	0.55	ug/L			09/18/18 14:59	1
Xylenes, Total	2.0	U	5.0	2.0	ug/L			09/18/18 14:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*		*09/18/18 14:59*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*09/18/18 14:59*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*09/18/18 14:59*	*1*
4-Bromofluorobenzene	*112*		*67 - 139*		*09/18/18 14:59*	*1*

Lab Sample ID: LCS 600-247667/5
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.5		ug/L		97	70 - 131
Ethylbenzene	50.0	52.1		ug/L		104	70 - 130
Toluene	50.0	49.8		ug/L		100	70 - 130
Xylenes, Total	100	103		ug/L		103	70 - 130
m-Xylene & p-Xylene	50.0	51.4		ug/L		103	70 - 130
o-Xylene	50.0	51.4		ug/L		103	69 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*50 - 134*
Dibromofluoromethane	*111*		*62 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene	*115*		*67 - 139*

Lab Sample ID: LCSD 600-247667/6
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.0		ug/L		94	70 - 131	3	20
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130	4	20
Toluene	50.0	47.5		ug/L		95	70 - 130	5	20
Xylenes, Total	100	97.9		ug/L		98	70 - 130	5	20
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	70 - 130	5	20
o-Xylene	50.0	48.8		ug/L		98	69 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*
Dibromofluoromethane	*113*		*62 - 130*
Toluene-d8 (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene	*119*		*67 - 139*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 600-247548/1-A
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.56	U	5.0	0.56	ug/L			09/18/18 15:21	1
Ethylbenzene	1.3	U	5.0	1.3	ug/L			09/18/18 15:21	1
Toluene	0.55	U	5.0	0.55	ug/L			09/18/18 15:21	1
Xylenes, Total	2.0	U	5.0	2.0	ug/L			09/18/18 15:21	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*09/18/18 15:21*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*09/18/18 15:21*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*09/18/18 15:21*	*1*
4-Bromofluorobenzene	*110*		*67 - 139*		*09/18/18 15:21*	*1*

Lab Sample ID: 600-172496-1 MS
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: 8I07010-01
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.8	U	250	232		ug/L		93	70 - 131
Ethylbenzene	6.5	U	250	247		ug/L		99	70 - 130
Toluene	2.8	U	250	236		ug/L		95	70 - 130
Xylenes, Total	9.9	U	500	495		ug/L		99	70 - 130
m-Xylene & p-Xylene	6.3	U	250	245		ug/L		98	70 - 130
o-Xylene	4.7	U	250	250		ug/L		100	69 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*50 - 134*
Dibromofluoromethane	*108*		*62 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene	*110*		*67 - 139*

Lab Sample ID: 600-172496-1 MSD
Matrix: Solid
Analysis Batch: 247667

Client Sample ID: 8I07010-01
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2.8	U	250	242		ug/L		97	70 - 131	5	21
Ethylbenzene	6.5	U	250	242		ug/L		97	70 - 130	2	25
Toluene	2.8	U	250	237		ug/L		95	70 - 130	0	21
Xylenes, Total	9.9	U	500	492		ug/L		98	70 - 130	1	25
m-Xylene & p-Xylene	6.3	U	250	244		ug/L		98	70 - 130	0	25
o-Xylene	4.7	U	250	248		ug/L		99	69 - 130	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*
Dibromofluoromethane	*115*		*62 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene	*116*		*67 - 139*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-247563/34-A
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247563

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0013	U	0.010	0.0013	mg/L		09/17/18 12:30	09/18/18 12:58	1
Arsenic	0.0029	U	0.010	0.0029	mg/L		09/17/18 12:30	09/18/18 12:58	1
Barium	0.00053	U	0.020	0.00053	mg/L		09/17/18 12:30	09/18/18 12:58	1
Cadmium	0.00028	U	0.0050	0.00028	mg/L		09/17/18 12:30	09/18/18 12:58	1
Chromium	0.0016	U	0.010	0.0016	mg/L		09/17/18 12:30	09/18/18 12:58	1
Lead	0.0022	U	0.010	0.0022	mg/L		09/17/18 12:30	09/18/18 12:58	1
Selenium	0.0029	U	0.040	0.0029	mg/L		09/17/18 12:30	09/18/18 12:58	1

Lab Sample ID: LCS 600-247563/35-A
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.510		mg/L		102	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Cadmium	0.500	0.514		mg/L		103	80 - 120
Chromium	1.00	0.993		mg/L		99	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LB 600-247525/1-B
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 247563

Analyte	LB Result	LB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.013	U	0.10	0.013	mg/L		09/17/18 12:30	09/18/18 13:41	1
Arsenic	0.029	U	0.10	0.029	mg/L		09/17/18 12:30	09/18/18 13:41	1
Barium	0.173	J	0.20	0.0053	mg/L		09/17/18 12:30	09/18/18 13:41	1
Cadmium	0.0028	U	0.050	0.0028	mg/L		09/17/18 12:30	09/18/18 13:41	1
Chromium	0.016	U	0.10	0.016	mg/L		09/17/18 12:30	09/18/18 13:41	1
Lead	0.022	U	0.10	0.022	mg/L		09/17/18 12:30	09/18/18 13:41	1
Selenium	0.029	U	0.40	0.029	mg/L		09/17/18 12:30	09/18/18 13:41	1

Lab Sample ID: 600-172495-A-1-H MS
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 247563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.013	U	5.00	5.25		mg/L		105	75 - 125
Arsenic	0.046	J	10.0	11.0		mg/L		110	75 - 125
Barium	0.52	B	10.0	10.9		mg/L		104	75 - 125
Cadmium	0.0028	U	5.00	5.31		mg/L		106	75 - 125
Chromium	0.016	U	10.0	9.56		mg/L		96	75 - 125
Lead	0.022	U	10.0	9.97		mg/L		100	75 - 125
Selenium	0.035	J	10.0	11.0		mg/L		110	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-172496-1 MS
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: 8I07010-01
Prep Type: TCLP
Prep Batch: 247563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.013	U	5.00	5.76		mg/L		115	75 - 125
Arsenic	0.029	U	10.0	11.6		mg/L		116	75 - 125
Barium	0.35	B	10.0	10.7		mg/L		103	75 - 125
Cadmium	0.0030	J	5.00	5.55		mg/L		111	75 - 125
Chromium	0.057	J	10.0	9.59		mg/L		95	75 - 125
Lead	0.029	J	10.0	10.0		mg/L		100	75 - 125
Selenium	0.029	U	10.0	11.5		mg/L		115	75 - 125

Lab Sample ID: 600-172496-1 DU
Matrix: Solid
Analysis Batch: 247673

Client Sample ID: 8I07010-01
Prep Type: TCLP
Prep Batch: 247563

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.013	U	0.013	U	mg/L		NC	20
Arsenic	0.029	U	0.029	U	mg/L		NC	20
Barium	0.35	B	0.348		mg/L		0.6	20
Cadmium	0.0030	J	0.0028	U	mg/L		NC	20
Chromium	0.057	J	0.0490	J	mg/L		15	20
Lead	0.029	J	0.0300	J	mg/L		3	20
Selenium	0.029	U	0.029	U	mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 600-247618/7-A
Matrix: Solid
Analysis Batch: 247660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247618

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	U	0.00025	0.00010	mg/L		09/18/18 07:08	09/18/18 10:12	1

Lab Sample ID: LCS 600-247618/8-A
Matrix: Solid
Analysis Batch: 247660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00375	0.00374		mg/L		100	70 - 130

Lab Sample ID: LB 600-247525/1-C
Matrix: Solid
Analysis Batch: 247660

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 247618

Analyte	LB Result	LB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	U	0.00025	0.00010	mg/L		09/18/18 07:08	09/18/18 10:19	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 600-172496-1 MS
Matrix: Solid
Analysis Batch: 247660

Client Sample ID: 8I07010-01
Prep Type: TCLP
Prep Batch: 247618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00010	U	0.00375	0.00289		mg/L		77	75 - 125

Lab Sample ID: 600-172431-A-1-E DU
Matrix: Solid
Analysis Batch: 247660

Client Sample ID: Duplicate
Prep Type: TCLP
Prep Batch: 247618

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.00010	U	0.00010	U	mg/L		NC	20

Method: 7.4.4 - Reactive Sulfide

Lab Sample ID: MB 600-247700/1-A
Matrix: Solid
Analysis Batch: 248079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247700

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14	U	50	14	mg/Kg		09/18/18 13:00	09/21/18 18:00	1

Lab Sample ID: LCS 600-247700/3-A
Matrix: Solid
Analysis Batch: 248079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	1200		mg/Kg		120	0 - 200

Lab Sample ID: 600-172612-A-1-E MS
Matrix: Solid
Analysis Batch: 248079

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 247700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	14	U	978	215		mg/Kg		22	0 - 200

Lab Sample ID: 600-172612-A-1-C DU
Matrix: Solid
Analysis Batch: 248079

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 247700

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	14	U	14	U	mg/Kg		NC	20

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 600-247700/1-A
Matrix: Solid
Analysis Batch: 247914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247700

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	0.086	U	0.25	0.086	mg/Kg		09/18/18 13:00	09/20/18 01:10	1

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: LCS 600-247700/2-A
Matrix: Solid
Analysis Batch: 247914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247700

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Reactive			1000	13.6		mg/Kg		1	0 - 200		

Lab Sample ID: 600-172612-A-1-D MS ^40
Matrix: Solid
Analysis Batch: 247914

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 247700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Reactive	0.085	U	986	62.5		mg/Kg		6	0 - 200		

Lab Sample ID: 600-172612-A-1-C DU
Matrix: Solid
Analysis Batch: 247914

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 247700

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Reactive	0.085	U	0.085	U	mg/Kg				NC	20

Method: 9045C - Corrosivity as pH

Lab Sample ID: LCS 600-247583/26
Matrix: Solid
Analysis Batch: 247583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 600-172423-A-1 DU
Matrix: Solid
Analysis Batch: 247583

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.2		8.2		SU				0.1	1

Method: D92 - Flashpoint

Lab Sample ID: MB 600-248070/1
Matrix: Solid
Analysis Batch: 248070

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>160		1.00	1.00	Degrees F			09/21/18 12:10	1

Lab Sample ID: LCS 600-248070/2
Matrix: Solid
Analysis Batch: 248070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Flashpoint			81.0	>160		Degrees F		NaN	88 - 112		

Method: D92 - Flashpoint (Continued)

Lab Sample ID: 600-172295-A-1 DU
Matrix: Solid
Analysis Batch: 248070

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>160			>160		Degrees F				NC	20

Unadjusted Detection Limits

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Leach: 1311

Analyte	MQL	MDL	Units	Method
Benzene	5.0	0.56	ug/L	8260B
Ethylbenzene	5.0	1.3	ug/L	8260B
Toluene	5.0	0.55	ug/L	8260B
Xylenes, Total	5.0	2.0	ug/L	8260B

Method: 6010B - Metals (ICP) - TCLP

Prep: 3010A
Leach: 1311

Analyte	MQL	MDL	Units	Method
Arsenic	0.010	0.0029	mg/L	6010B
Barium	0.020	0.00053	mg/L	6010B
Cadmium	0.0050	0.00028	mg/L	6010B
Chromium	0.010	0.0016	mg/L	6010B
Lead	0.010	0.0022	mg/L	6010B
Selenium	0.040	0.0029	mg/L	6010B
Silver	0.010	0.0013	mg/L	6010B

Method: 7470A - Mercury (CVAA) - TCLP

Prep: 7470A
Leach: 1311

Analyte	MQL	MDL	Units	Method
Mercury	0.00020	0.000082	mg/L	7470A

General Chemistry

Analyte	MQL	MDL	Units	Method
pH	0.01	0.01	SU	9045C
Flashpoint	1.00	1.00	Degrees F	D92

General Chemistry

Prep: 7.3.4

Analyte	MQL	MDL	Units	Method
Sulfide, Reactive	50	14	mg/Kg	7.4.4
Cyanide, Reactive	0.25	0.086	mg/Kg	9012

GC/MS VOA

Leach Batch: 247548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	1311	
LB 600-247548/1-A	Method Blank	TCLP	Solid	1311	
600-172496-1 MS	8I07010-01	TCLP	Solid	1311	
600-172496-1 MSD	8I07010-01	TCLP	Solid	1311	

Analysis Batch: 247667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	8260B	247548
LB 600-247548/1-A	Method Blank	TCLP	Solid	8260B	247548
MB 600-247667/9	Method Blank	Total/NA	Solid	8260B	
LCS 600-247667/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-247667/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
600-172496-1 MS	8I07010-01	TCLP	Solid	8260B	247548
600-172496-1 MSD	8I07010-01	TCLP	Solid	8260B	247548

Metals

Leach Batch: 247525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	1311	
LB 600-247525/1-B	Method Blank	TCLP	Solid	1311	
LB 600-247525/1-C	Method Blank	TCLP	Solid	1311	
600-172495-A-1-H MS	Matrix Spike	TCLP	Solid	1311	
600-172496-1 MS	8I07010-01	TCLP	Solid	1311	
600-172431-A-1-E DU	Duplicate	TCLP	Solid	1311	
600-172496-1 DU	8I07010-01	TCLP	Solid	1311	

Prep Batch: 247563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	3010A	247525
LB 600-247525/1-B	Method Blank	TCLP	Solid	3010A	247525
MB 600-247563/34-A	Method Blank	Total/NA	Solid	3010A	
LCS 600-247563/35-A	Lab Control Sample	Total/NA	Solid	3010A	
600-172495-A-1-H MS	Matrix Spike	TCLP	Solid	3010A	247525
600-172496-1 MS	8I07010-01	TCLP	Solid	3010A	247525
600-172496-1 DU	8I07010-01	TCLP	Solid	3010A	247525

Prep Batch: 247618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	7470A	247525
LB 600-247525/1-C	Method Blank	TCLP	Solid	7470A	247525
MB 600-247618/7-A	Method Blank	Total/NA	Solid	7470A	
LCS 600-247618/8-A	Lab Control Sample	Total/NA	Solid	7470A	
600-172496-1 MS	8I07010-01	TCLP	Solid	7470A	247525
600-172431-A-1-E DU	Duplicate	TCLP	Solid	7470A	247525

Analysis Batch: 247660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	7470A	247618
LB 600-247525/1-C	Method Blank	TCLP	Solid	7470A	247618

Metals (Continued)

Analysis Batch: 247660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-247618/7-A	Method Blank	Total/NA	Solid	7470A	247618
LCS 600-247618/8-A	Lab Control Sample	Total/NA	Solid	7470A	247618
600-172496-1 MS	8I07010-01	TCLP	Solid	7470A	247618
600-172431-A-1-E DU	Duplicate	TCLP	Solid	7470A	247618

Analysis Batch: 247673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	TCLP	Solid	6010B	247563
LB 600-247525/1-B	Method Blank	TCLP	Solid	6010B	247563
MB 600-247563/34-A	Method Blank	Total/NA	Solid	6010B	247563
LCS 600-247563/35-A	Lab Control Sample	Total/NA	Solid	6010B	247563
600-172495-A-1-H MS	Matrix Spike	TCLP	Solid	6010B	247563
600-172496-1 MS	8I07010-01	TCLP	Solid	6010B	247563
600-172496-1 DU	8I07010-01	TCLP	Solid	6010B	247563

General Chemistry

Analysis Batch: 247583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	Total/NA	Solid	9045C	
LCS 600-247583/26	Lab Control Sample	Total/NA	Solid	9045C	
600-172423-A-1 DU	Duplicate	Total/NA	Solid	9045C	

Prep Batch: 247700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	Total/NA	Solid	7.3.4	
MB 600-247700/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 600-247700/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 600-247700/3-A	Lab Control Sample	Total/NA	Solid	7.3.4	
600-172612-A-1-D MS ^40	Matrix Spike	Total/NA	Solid	7.3.4	
600-172612-A-1-E MS	Matrix Spike	Total/NA	Solid	7.3.4	
600-172612-A-1-C DU	Duplicate	Total/NA	Solid	7.3.4	

Analysis Batch: 247914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	Total/NA	Solid	9012	247700
MB 600-247700/1-A	Method Blank	Total/NA	Solid	9012	247700
LCS 600-247700/2-A	Lab Control Sample	Total/NA	Solid	9012	247700
600-172612-A-1-D MS ^40	Matrix Spike	Total/NA	Solid	9012	247700
600-172612-A-1-C DU	Duplicate	Total/NA	Solid	9012	247700

Analysis Batch: 248070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	Total/NA	Solid	D92	
MB 600-248070/1	Method Blank	Total/NA	Solid	D92	
LCS 600-248070/2	Lab Control Sample	Total/NA	Solid	D92	
600-172295-A-1 DU	Duplicate	Total/NA	Solid	D92	

General Chemistry (Continued)

Analysis Batch: 248079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-172496-1	8I07010-01	Total/NA	Solid	7.4.4	247700
MB 600-247700/1-A	Method Blank	Total/NA	Solid	7.4.4	247700
LCS 600-247700/3-A	Lab Control Sample	Total/NA	Solid	7.4.4	247700
600-172612-A-1-E MS	Matrix Spike	Total/NA	Solid	7.4.4	247700
600-172612-A-1-C DU	Duplicate	Total/NA	Solid	7.4.4	247700

Lab Chronicle

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Client Sample ID: 8I07010-01
Date Collected: 09/04/18 11:15
Date Received: 09/12/18 09:55

Lab Sample ID: 600-172496-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.2 g	500 mL	247548	09/14/18 17:30	TWR	TAL HOU
TCLP	Analysis	8260B		5	5 mL	5 mL	247667	09/18/18 15:44	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	247525	09/14/18 16:00	SOT	TAL HOU
TCLP	Prep	3010A			5.0 mL	50.0 mL	247563	09/17/18 12:30	AML	TAL HOU
TCLP	Analysis	6010B		1			247673	09/18/18 14:26	DCL	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	247525	09/14/18 16:00	SOT	TAL HOU
TCLP	Prep	7470A			40 mL	50 mL	247618	09/18/18 07:08	KP1	TAL HOU
TCLP	Analysis	7470A		1			247660	09/18/18 13:46	KP1	TAL HOU
Total/NA	Prep	7.3.4			10.16 g	250 mL	247700	09/18/18 13:00	DTN	TAL HOU
Total/NA	Analysis	7.4.4		1			248079	09/21/18 18:00	KRD	TAL HOU
Total/NA	Prep	7.3.4			10.16 g	250 mL	247700	09/18/18 13:00	DTN	TAL HOU
Total/NA	Analysis	9012		1			247914	09/20/18 01:23	KRD	TAL HOU
Total/NA	Analysis	9045C		1			247583	09/17/18 16:54	SKR	TAL HOU
Total/NA	Analysis	D92		1			248070	09/21/18 12:10	KLR	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 8I07010

TestAmerica Job ID: 600-172496-1

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704223-17-22	10-31-18

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9012	7.3.4	Solid	Cyanide, Reactive
D92		Solid	Flashpoint

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250 poly 1	HCl 2x 40mL VOA	H_2SO_4 1 Amber 500 250 poly	NaOH /ZNAC 250 Poly 1	$Na_2S_2O_3$	None Poly 500mL 250mL Glass Amber 1000 500 mL	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: RCI	TCLP BENZENE 8260	TCLP Metals	Ignitibility	TCLP BTEX 8260B	[redacted]	2 Day TAT	Standard TAT 4 DAY
	8I07010-01			9/4/2018	11:15		1	X									S		X		X		X			X

600-172496 Chain of Custody

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	9/11/18	1700			
Relinquished by:	Date	Time	Received by:	9.12	955
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

TestAmerica Houston

Loc: 600
172496

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

18 SEP 12 9:5

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: PBEL

UNPACKED BY: FM CARRIER/DRIVER: FedEx

Custody Seal Present: ☑ YES ☐ NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
Blue	Y / N	Y / N	2.4	1078	-0.3	2.5
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

9.12.18

CF = correction factor

Samples received on ice? ☑ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

pH paper Lot #_____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☑ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓	

COMMENTS:

9.13

HS-SA-WI-013 Rev. 3; 07/01/2014

Login Sample Receipt Checklist

Client: Permian Basin Environmental Lab LP

Job Number: 600-172496-1

Login Number: 172496

List Source: TestAmerica Houston

List Number: 1

Creator: Taylor, Jaquelyn R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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

PBELAB

Analytical Report

Prepared for:

Matt Green

2M Environmental Services, LLC.

1219 W. University Blvd.

Odessa, TEXAS 79764

Project: Plains Mad Dog 26

Project Number: SRS#

Location: Lea County, NM

Lab Order Number: 8J22002

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 10/23/18

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole-2 @ 3.5'	8J22002-01	Soil	10/11/18 15:15	10-22-2018 13:47
Bottomhole-3 @ 3.5'	8J22002-02	Soil	10/11/18 14:50	10-22-2018 13:47
Bottomhole-4 @ 3.5'	8J22002-03	Soil	10/11/18 14:45	10-22-2018 13:47
Bottomhole-5 WW @ 3'	8J22002-04	Soil	10/11/18 12:45	10-22-2018 13:47
Bottomhole-6 SW @ 2'	8J22002-05	Soil	10/11/18 10:00	10-22-2018 13:47
Bottomhole-6 SW @ 3'	8J22002-06	Soil	10/11/18 10:15	10-22-2018 13:47

Bottomhole-2 @ 3.5'

8J22002-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**8.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**147**	27.2	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	**33.1**	27.2	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*99.3 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**180**	27.2	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-3 @ 3.5'

8J22002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*116 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**221**	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	**33.3**	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**254**	27.8	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-4 @ 3.5'

8J22002-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*123 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**78.8**	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**78.8**	27.8	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-5 WW @ 3'

8J22002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*119 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.1 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**6.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**30.8**	26.6	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**617**	26.6	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	**90.7**	26.6	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*146 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**738**	26.6	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 SW @ 2'

8J22002-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*125 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**7.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**231**	26.9	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	**49.1**	26.9	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**280**	26.9	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Bottomhole-6 SW @ 3'

8J22002-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8J2210	10/22/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*75-125*		*P8J2210*	*10/22/18*	*10/22/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**13.0**	0.1	%	1	P8J2306	10/23/18	10/23/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C12-C28	**78.9**	28.7	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8J2308	10/22/18	10/22/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P8J2308*	*10/22/18*	*10/22/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**78.9**	28.7	mg/kg dry	1	[CALC]	10/22/18	10/22/18	calc	

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8J2210 - General Preparation (GC)										
Blank (P8J2210-BLK1)				Prepared & Analyzed: 10/22/18						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	*0.0560*		*"*	*0.0600*		*93.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0678*		*"*	*0.0600*		*113*	*75-125*			
LCS (P8J2210-BS1)				Prepared & Analyzed: 10/22/18						
Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Toluene	0.118	0.0100	"	0.100		118	70-130			
Ethylbenzene	0.117	0.00500	"	0.100		117	70-130			
Xylene (p/m)	0.208	0.0200	"	0.200		104	70-130			
Xylene (o)	0.117	0.0100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0614*		*"*	*0.0600*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0682*		*"*	*0.0600*		*114*	*75-125*			
LCS Dup (P8J2210-BSD1)				Prepared & Analyzed: 10/22/18						
Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130	2.49	20	
Toluene	0.119	0.0100	"	0.100		119	70-130	1.15	20	
Ethylbenzene	0.118	0.00500	"	0.100		118	70-130	0.0851	20	
Xylene (p/m)	0.216	0.0200	"	0.200		108	70-130	3.56	20	
Xylene (o)	0.118	0.0100	"	0.100		118	70-130	1.14	20	
Surrogate: 1,4-Difluorobenzene	*0.0629*		*"*	*0.0600*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0684*		*"*	*0.0600*		*114*	*75-125*			
Matrix Spike (P8J2210-MS1)	**Source: 8J22002-01**			Prepared & Analyzed: 10/22/18						
Benzene	0.0904	0.00109	mg/kg dry	0.109	ND	83.2	80-120			
Toluene	0.0960	0.0109	"	0.109	ND	88.3	80-120			
Ethylbenzene	0.111	0.00543	"	0.109	ND	102	80-120			
Xylene (p/m)	0.205	0.0217	"	0.217	ND	94.2	80-120			
Xylene (o)	0.110	0.0109	"	0.109	ND	101	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0723*		*"*	*0.0652*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0815*		*"*	*0.0652*		*125*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8J2210 - General Preparation (GC)										
Matrix Spike Dup (P8J2210-MSD1)		**Source: 8J22002-01**		Prepared & Analyzed: 10/22/18						
Benzene	0.0839	0.00109	mg/kg dry	0.109	ND	77.2	80-120	7.53	20	QM-07
Toluene	0.0895	0.0109	"	0.109	ND	82.3	80-120	7.06	20	
Ethylbenzene	0.106	0.00543	"	0.109	ND	97.3	80-120	4.68	20	
Xylene (p/m)	0.190	0.0217	"	0.217	ND	87.2	80-120	7.70	20	
Xylene (o)	0.0935	0.0109	"	0.109	ND	86.0	80-120	16.3	20	
Surrogate: 1,4-Difluorobenzene	*0.0723*		*"*	*0.0652*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0834*		*"*	*0.0652*		*128*	*75-125*			*S-GC*

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8J2306 - * DEFAULT PREP *** **										
Blank (P8J2306-BLK1)				Prepared & Analyzed: 10/23/18						
% Moisture	ND	0.1	%							
Duplicate (P8J2306-DUP1)		**Source: 8J22003-06**		Prepared & Analyzed: 10/23/18						
% Moisture	11.0	0.1	%		11.0			0.00	20	

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8J2308 - TX 1005										
Blank (P8J2308-BLK1)				Prepared & Analyzed: 10/22/18						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*99.2*		*"*	*100*		*99.2*	*70-130*			
Surrogate: o-Terphenyl	*59.3*		*"*	*50.0*		*119*	*70-130*			
LCS (P8J2308-BS1)				Prepared & Analyzed: 10/22/18						
C6-C12	844	25.0	mg/kg wet	1000		84.4	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*51.5*		*"*	*50.0*		*103*	*70-130*			
LCS Dup (P8J2308-BSD1)				Prepared & Analyzed: 10/22/18						
C6-C12	864	25.0	mg/kg wet	1000		86.4	75-125	2.34	20	
>C12-C28	1010	25.0	"	1000		101	75-125	2.54	20	
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*49.9*		*"*	*50.0*		*99.8*	*70-130*			
Duplicate (P8J2308-DUP1)	**Source: 8J18007-07**			Prepared: 10/22/18 Analyzed: 10/23/18						
C6-C12	170	30.9	mg/kg dry		172			0.946	20	
>C12-C28	855	30.9	"		845			1.23	20	
Surrogate: 1-Chlorooctane	*131*		*"*	*123*		*106*	*70-130*			
Surrogate: o-Terphenyl	*76.7*		*"*	*61.7*		*124*	*70-130*			

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.

2M Environmental Services, LLC.	Project: Plains Mad Dog 26	Fax:
1219 W. University Blvd.	Project Number: SRS#	
Odessa TEXAS, 79764	Project Manager: Matt Green	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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: Brent Barron Date: 10/23/2018

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.

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.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Project Manager: Matt Green
Company Name: 2M Environmental Services, LLC.
Company Address: 1219 W. University Blvd.
City/State/Zip: Odessa, Texas 79764
Telephone No: (432)230-3763 Fax No:
Sampler Signature:

Project Name: Plains Mad Dog 26
Project #: SRS #:
Project Loc: Lea County, NM
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

e-mail: mgreen@2m-environmental.com
rblake@2m-environmental.com
ALGroves@paalp.com

(lab use only)
ORDER #: 852202

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 Ext TX 1008	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	TOTAL: RCI	N.O.R.M.	Chlorides E 300	TCLP Benzene	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Bottomhole-2 @ 3.5'			10/11/2018	1515		1	x								S	x								x						X	
02	Bottomhole-3 @ 3.5'			10/11/2018	1450		1	x								S	x								x						X	
03	Bottomhole-4 @ 3.5'			10/11/2018	1445		1	x								S	x								x						X	
04	Bottomhole-5 WW @ 3'			10/4/2018	1245		1	x								S	x								x						X	
05	Bottomhole-6 SW @ 2'			10/4/2018	1000		1	x								S	x								x						X	
06	Bottomhole-6 SW @ 3'			10/4/2018	1015		1	x								S	x								x						x	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	10/22/18				
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL	Date	Time
				10-22-18	1330

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody Seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: 2.0 °C Factor

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

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this Documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Plains Pipeline, LP
505 Big Spring St, Suite 600
Midland, Texas 79701

2. **Originating Site:** From the intersection of Delaware Basin Road and County Road 21B turn south on County Road 21B and go 4 miles to lease road. Turn east and go 1.48 miles then turn north and go 325 feet. Turn west and go 300 to location. Mewbourne Mad Dog 26 Battery GPS Point: 32.269032 -103.448013.

3.

4. **Location of Material (Street Address, City, State or ULSTR):**
1911 Connie Road, Carlsbad, New Mexico

5. **Source and Description of Waste:**
Non-Refined hydrocarbon waste generated during various maintenance activities related to permitted pipelines and/or pipeline facilities.

Estimated Volume 300 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Amber Groves, representative or authorized agent for Plains Pipeline, LP do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Amber Groves, representative for Plains Pipeline, LP do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lazy Ace Landfarm, LLC. – NMOCD Permit #NM-01-0041
Address of Facility: Highway 176, Lea County, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: DANNY BERRY TITLE: Partner DATE: 11-30-18

SIGNATURE: Danny Berry TELEPHONE NO.: 575 369 5266

Surface Waste Management Facility Authorized Agent

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance With 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Plains Pipeline LP	Contact Camille Bryant
Address 505 N. Big Spring Suite 600 , Midland, TX 79701	Telephone No. (575) 441-1099
Facility Name Mewbourne Mad Dog 26 MP State Com #001H	Facility Type Lact Unit

Surface Owner NMSLO	Mineral Owner NMSLO	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	26	23S	34E					Lea

Latitude N 32.2687600° Longitude W 103.4482740° NAD83

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 9 bbls	Volume Recovered 6 bbls
Source of Release Triplex Pump	Date and Hour of Occurrence 08/19/2018 @ 14:45	Date and Hour of Discovery 08/19/2018 @ 14:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Voicemail to Olivia Yu	
By Whom? Camille Bryant	Date and Hour 08/20/2018 @ 12:40	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By CHernandez at 5:12 pm, Aug 21, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Mechanical failure of Triplex pump resulted in a release of crude oil. Released fluids where confined to the secondary containment and caliche pad of the facility.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted the bermed lact unit and adjacent production pad. The impacted area will be remediated as per applicable NMOCD guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Camille Bryant

Printed Name: Camille Bryant

Title: Remediation Supervisor

E-mail Address: cjbryant@paalp.com

Date: 08/21/2018 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:: CH

Approval Date: 8/21/2018 ...on Date:

Conditions of Approval:

NMAC 19.15.29 effective August 14, 2018. Complete release characterization before any significant remediation.

Attached ☐

* Attach Additional Sheets If Necessary

1RP-5168

nCH1823364998

pCH1823362780

fCH1823364176

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline

Address: ______

Phone #: ______

Originating Location of waste material:

Lease Name: [illegible] Mad Dog 26

Sec ______ T ______ R ______

Transporter Information:

Name: Smith Trucking

Address: 2415 E Kansas St

Phone #: 575 [illegible]

Driver Signature: [illegible]

Date: 12-7-18

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: ______

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

" As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: ______ Date: ______

White - Original **Canary - Invoice** **Pink - Trucker**

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline LP

Address: 1911 Crane Rd Carlsbad NM

Phone #: 575 200 5517

Originating Location of waste material:

Lease Name: NewComet Mad Dog 26

Sec. 26 T 23 R 34E

Transporter Information:

Name: JJ Trucking LLC

Address: PO Box 236 Lovington NM 88260

Phone #: 575-441 0469

Driver Signature:

Date: 12-7-18

Non-Hazardous Hydro-Carbons: # of Yards: 12

Waste material placed in cell number: A10

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

" As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original **Canary - Invoice** **Pink - Trucker**

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: 2M Environmental Serv. LLC.

Address: 1219 W University Odessa TX 79764

Phone #: 432-614-6797

Originating Location of waste material:

Lease Name: NewComet Mad Dog

Sec. 26 T 23 R 34E

Transporter Information:

Name: JJ Trucking LLC

Address: PO Box 236 Lovington NM 88260

Phone #: 575-441 0469

Driver Signature:

Date: 12-6-18

Non-Hazardous Hydro-Carbons: # of Yards: 32

Waste material placed in cell number: A10

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

" As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original **Canary - Invoice** **Pink - Trucker**

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline, LP

Address: 1911 Conoco Rd Carlsbad, NM

Phone #: 575 200-5517

Originating Location of waste material:

Lease Name: Newbourne Mid Dr. 24

Sec. 24 T 22S R 34E

Transporter Information:

Name: All Texas Trucking llc

Address: P.O. Box 22 Loving, NM 88256

Phone #: 575 706 3921

Driver Signature:

Date: 12-7-15

Non-Hazardous Hydro-Carbons:

of Yards: 12

Waste material placed in cell number: A10

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

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Facility Representative: _____ Date: _____

White - Original **Canary - Invoice** **Pink - Trucker**

Manifest #

Lazy Ace Landfarm

Lease Operator Information: Plains Pipeline LP

Name: 2M Environmental Services LLC

Address: 1219 w university Blvd odessa, tx 79764

Phone #: off 432-614-6793

Originating Location of waste material:

Lease Name: Mewbourne Med Rog 26 ULT "M"

Sec. 26 T 23S R 34E

Transporter Information:

Name: DS Truck Services

Address: 185 west Bert Hobbs NM 88240

Phone #: 575-631-9868

Driver Signature:

Date: 12/7/18

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

" As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original **Canary - Invoice** **Pink - Trucker**

Manifest #

Lazy Ace Landfarm

Lease Operator Information: Plains Pipeline LP

Name: 2M Environmental Services

Address: 1219 w University Blvd odessa tx 79764

Phone #: 817-432-614 6795

Originating Location of waste material:

Lease Name: Mewbourne Mad Dog 26 UL I

Sec. 26 T 23S R 34E

Transporter Information:

Name: DJ Truck Services

Address: 103 west Berry Hobbs nm 88240

Phone #: 575-631-9868

Driver Signature:

Date: 12/6/18

Non-Hazardous Hydro-Carbons: # of Yards: 360

Waste material placed in cell number:

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:
Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

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Facility Representative: _____ Date: _____

White - Original **Canary - Invoice** **Pink - Trucker**