

Incident ID	
District RP	1RP-4340
Facility ID	nJXK1619033991
Application ID	pJXK1619034092

Closure

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

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

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

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

Printed Name: Amber Groves Title: Remediation Coordinator
 Signature: [Signature] Date: 11/14/2020
 email: algroves@pac-p.com Telephone: 505-200-5517

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Karen Collins Date: 6/23/2021
 Printed Name: Karen Collins Title: Enviro Spec

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-3791
Facility ID	nKJ1521954222
Application ID	pKJ1521954545

Closure

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

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

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

Printed Name: Amber Groves Title: Remediation Coordinator
 Signature: [Signature] Date: 11/4/2020
 email: agroves@pactp.com Telephone: 505-200-5577

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Karen Collins Date: 6/23/2021
 Printed Name: Karen Collins Title: Enviro Spec

Deferral is approved



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

SOIL REMEDIATION ACTIVITIES REPORT AND CLOSURE REQUEST

PLAINS PIPELINE, L.P.

LOVINGTON STATION TANK 116901 RELEASE

LEA COUNTY, NM

NMOCD INCIDENT #: 1RP-3791 (DEFERRED) AND 1RP-4340

SRS #: 2016-108

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March 5, 2020

New Mexico Oil Conservation Service, District 1
1625 N. French Drive
Hobbs, New Mexico 88240

New Mexico State Land Office
Attn: Mr. Ryan Mann
914 N. Linam Street
Hobbs, New Mexico 88240

Re: Soil Remediation Activities Report and Closure Request

Lovington Station Tank 116901 Release

Unit Letter H, Section 21, Township 18S, Range 36E

GPS: N 32.73422°, W 103.35255°

Lea County, New Mexico

NMOCD Incident #s: 1RP-3791 (Deferred) and 1RP-4340

SRS #: 2016-108

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and Closure Request on behalf of Plains Pipeline, L.P. (Plains) to document the field excavation activities that were conducted at the Lovington Station Tank 116901 Release site. The crude oil release occurred off Hwy 483, approximately 12.82 miles east/northeast of Hobbs in Lea County, New Mexico in Unit Letter H, Section 21, Township 18S and Range 36E. The GPS coordinate for the site is N 32.73422° and W -103.35255°. This report covers the completion of soil remediation of 1RP-3791 (Deferred) and 1RP-4340. A "Site Location Map" is provided as Figure 1. This site is located on New Mexico State Trust Land.

2. Two Release Descriptions and Response Actions

On August 5, 2015, a crude oil release occurred due to internal corrosion along the floor of tank 117275 resulting in a release of approximately one hundred and one (101) barrels (bbl) of crude with approximately sixty-six (66) bbls recovered for a net loss of approximately forty-five (45) bbls. The release was contained onsite within the secondary containment and measured approximately

forty (40) ft. by eighty (80) ft an affecting an area of approximately 2,100 square feet (sq. ft.). A C-141 was filed and given incident number 1RP-3791. According to a Terracon report dated December 29, 2015, entitled "*Remediation Summary and Risk Based Closure Report*", between August 11, 2015 and October 1, 2015, Terracon personnel oversaw the soil remediation, sampling, and backfilling activities at the site. The entire site was remediated to below standards as set forth in the August 13, 1993 NMOCD guidance document entitled "*Guidelines for Remediation of Leaks, Spills and Releases*," with the exception of one area which was not accessible due to onsite tank and ancillary equipment. Permission to backfill the western section of the excavation was requested in an August 25, 2019 Terracon email, which was granted by the NMOCD in an email dated August 26, 2019. In a Terracon email dated September 21, 2015 submitted on behalf of Plains, a request for permission to backfill the eastern half of the excavation along with a deferral on remaining hydrocarbon impacted soils was requested. In an email response dated September 22, 2015, a representative of the NMOCD granted permission to backfill the eastern half of the excavation. In addition, within the correspondence of emails the NMOCD stated that incident number 1RP-3791 would remain open until such time as historic contamination is addressed by site abandonment, sale, or closure. See Appendix B for corresponding emails. The soils left in-site until abandonment measured approximately five (5) ft by eight (8) ft and is represented by Terracon's soil sample East RP @ Surf. on Figure 2 "Site and Sample Location Map". This report addresses the remediation of the remaining soils which were left in-situ during the 2015 remediation activities and the completion of incident number 1RP-3791.

On July 3, 2016, a second crude oil released occurred at the site. A C-141 was filed and given incident number 1RP-4340. According to the filed C-141, the release was attributed to internal corrosion along the floor of tank 116901 resulting in a release of approximately seventeen (17) bbls with fifteen (15) bbls recovered for a net loss of two (2) bbls. The release impacted the area previously remediated in August to October 2015 and covering an approximate area of 1,200 square feet within the secondary containment. On July 20, 2016, during an onsite meeting with the NMOCD, the NMOCD requested the tanks be removed and the impacted soils beneath the tanks remediated. This report details the remediation efforts of the second release and includes the removal of the deferred soils from the first release located in the vicinity of Terracon soil sample East RP @ Surf.

On July 2, 2019, Dean was assigned management responsibilities for impacted soil remediation, soil sampling, site restoration, and reporting activities by Plains. The initial and final C-141 forms

for the August 5, 2015 release and the initial C-141 form for the July 3, 2016 release are included in Appendix A.

3. NMOCD Regulatory Limits

Both releases occurred prior to August 2018 with the 1RP-3791 (deferred) release being remediated under the NMOCD August 13, 1993 “*Guidelines for Remediation of Leaks, Spills, and Releases*”. In August 2018, the NMOCD revised the assessment and cleanup levels for hydrocarbon and saltwater releases based on depth to groundwater following criteria as set forth in Title 19 Chapter 15 Part 29 New Mexico Administrative Code (19.15.29 NMAC). Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the New Mexico Bureau of Geology & Mineral Resources (NMBGMR) were accessed to determine if any registered water wells were located near the site. Data collected from the two databases listed two (2) registered water wells located within Unit Letter H, Section 21, Township 18S, and Range 36E with measured groundwater depths of approximately sixty (60) feet below ground surface (bgs) (Well L 01632 POD5) and 70 feet bgs (Well L 07469). See Appendix C for the NMOSE water column/average depth to groundwater data near the site. In addition, according to the Bureau of Land Management (BLM) the site is located in an area of low potential karst topography. See Figure 3 “Site Location Relative to Known Regional Karst Topography”. As outlined in 19.15.29.12.B.(4) NMAC, the release does not occur in referenced sensitive areas with the nearest water body feature being an unmarked intermittent stream located approximately 2.25 miles southeast of the site. Meeting the previous criteria, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons are as follows:

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

4. Soil Remediation Activities and Sample Analysis

Between July 2 and October 29, 2019, Dean Personnel were onsite to conduct soil remediation activities at the release site. Utilizing a backhoe, hydrocarbon impacted soils were excavated in the location of the former facility. During excavation activities, the soils were field screened utilizing both a photoionization detector (PID) and chloride test strips. See Appendix F for field screening data. Based on visual observations and field PID and chloride screening, the site was

excavated to dimensions of approximately sixty (60) ft. wide by forty (40) ft. long to a depth of six (6) ft. bgs. During the excavation, the hydrocarbon impacted soils (vicinity of soil sample East RP @ Surf.), which was deferred under 1RP- 3791, were also excavated. Approximately 744 cubic yards of soil were removed from the excavation and stockpiled on plastic awaiting disposal.

On October 7, 2019, twelve (12) composite bottom hole soil samples (BH-1 @ 6' through BH-12 @ 6') along with eight (8) composite sidewall soil samples (SW-1 @ 3', SB-2 @ 3', NW-1 @ 3', NW-2 @ 3', EW-1 @ 3', EW-2 @ 3', WW-1 @ 3', and WW-2 @ 3') were collected at the site every two hundred (200) ft²., placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to Cardinal Laboratories of Hobbs, New Mexico (Cardinal). Soil samples were analyzed for TPH utilizing Method SW-846 8015M, BTEX utilizing Method SW-846 8021B, and chlorides utilizing Method 4500-CL-B. See Figure 4 "Site Excavation Details and Confirmation Soil Sample Location Map" for sample locations. The TPH concentrations for all soil samples were below the NMOCD standards of 1,000 mg/Kg (TPH Gro +Dro) and 2,500 mg/Kg (Total TPH) with a maximum concentration of 197 mg/Kg (TPH Gro + Dro) and 266.1 mg/Kg total TPH in soil wall sample SW-1 @ 3'. Chloride concentrations were below NMOCD standards of 10,000 mg/Kg with results ranging from 16 mg/Kg in eleven (11) of the twenty (20) soil samples to 160 mg/Kg in soil sample BH-5 @ 6'. Benzene and total BTEX concentrations were below method detection limits for all samples analyzed. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix D.

5. Conclusion and Closure Request

Upon collecting requisite confirmation soil samples, the excavated area was backfilled between October 25 and 29, 2019 with locally sourced non-impacted soils and brought to grade. Photo documentation detailing site activities is included in Appendix E. The approximately 744 cubic yards of stockpiled hydrocarbon impacted soils were transported offsite for disposal at Lazy Ace Landfarm in Eunice, New Mexico. See Appendix G for waste manifests. Based upon the analytical results of the confirmation soil samples collected from the base and side walls of the excavation, Plains believes the site has been remediated to within standards set forth by the NMOCD. As such, Plains respectfully requests that the NMOCD consider closure of both incident numbers 1RP-3791 (Deferred) and 1RP-4340. Final C-141's closure for 1RP-4340 and 1RP-3791 are attached to the front of this report.

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

Sincerely,



Sylwia Reynolds

Project Manager



Jeffrey Kindley, R.G.

Professional Geologist

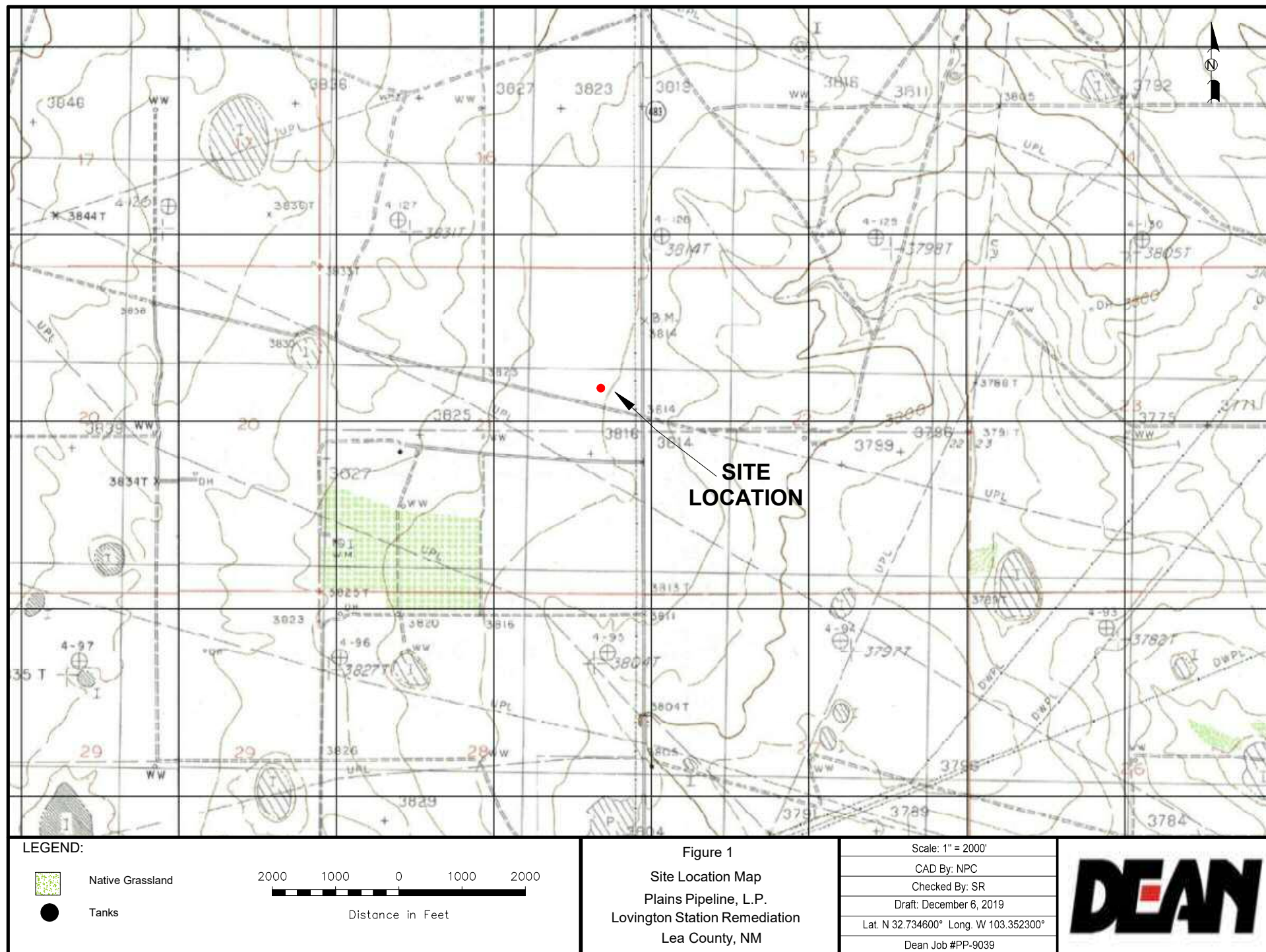
TABLE

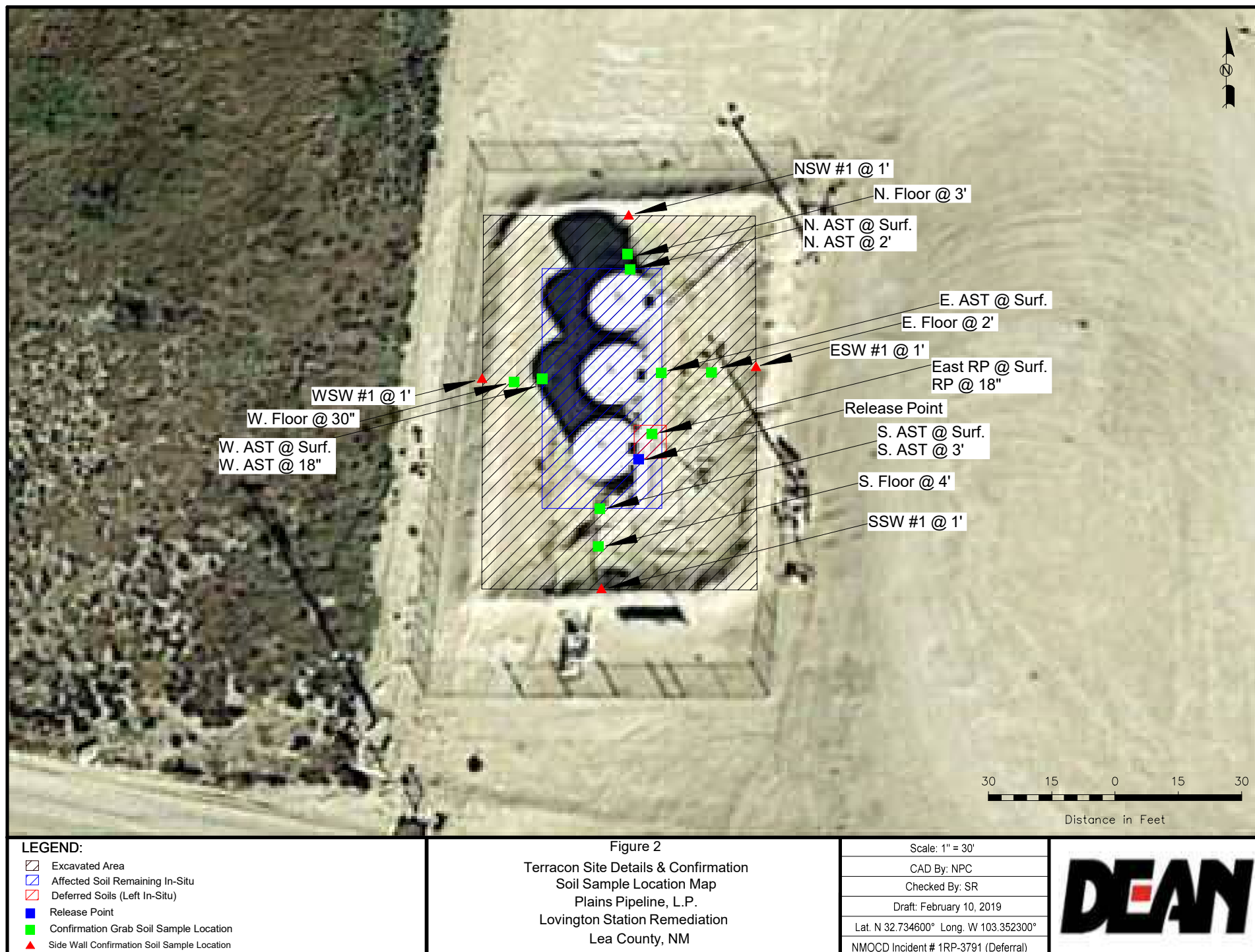


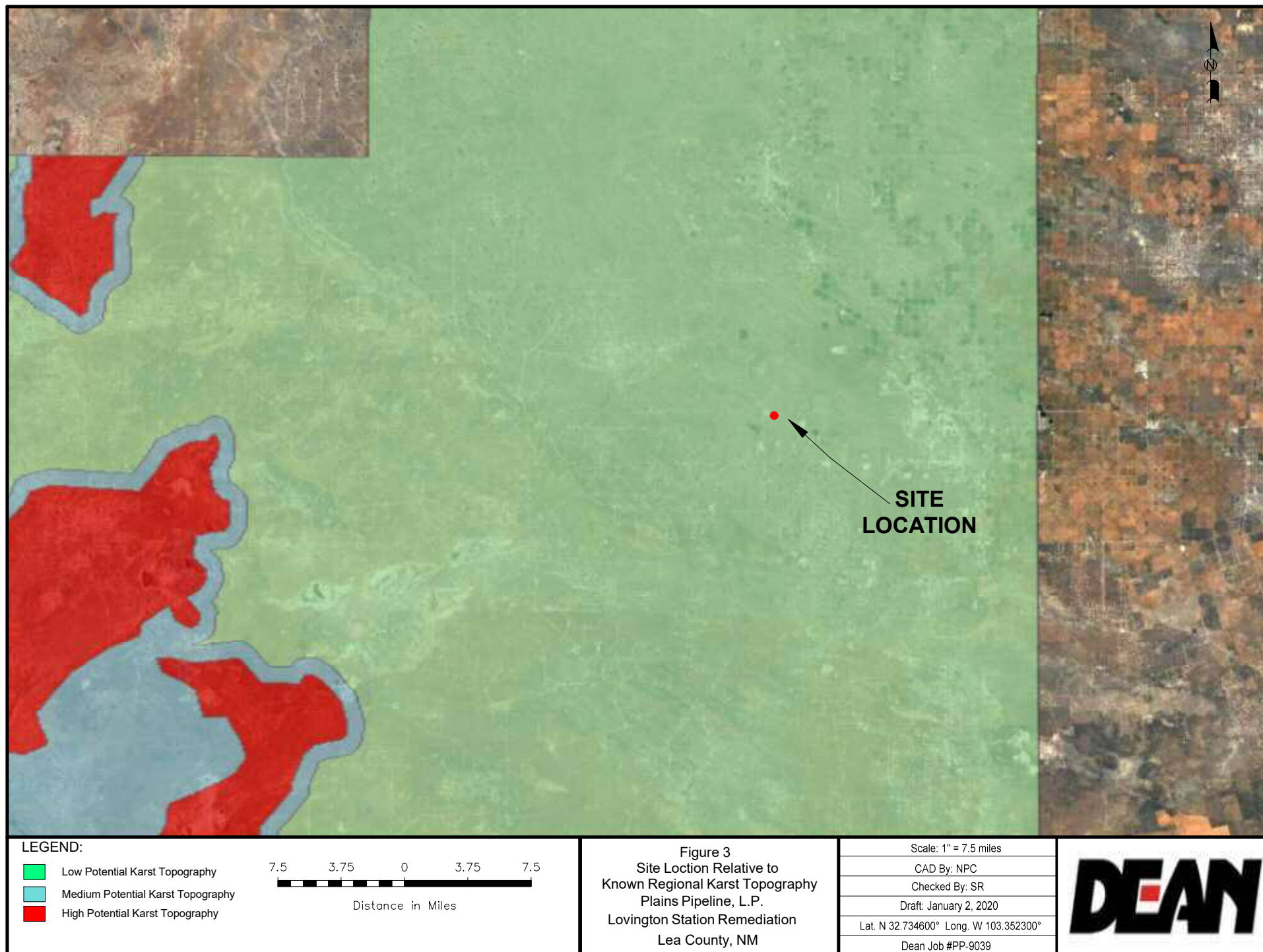
Table 1. Chemistry Table
Concentrations of Benzene, BTEX, TPH and Chlorides in soil
Plains: Lovngton Station Remediation
SRS #2016-108
Plains Pipeline, L.P.
Lea County, NM

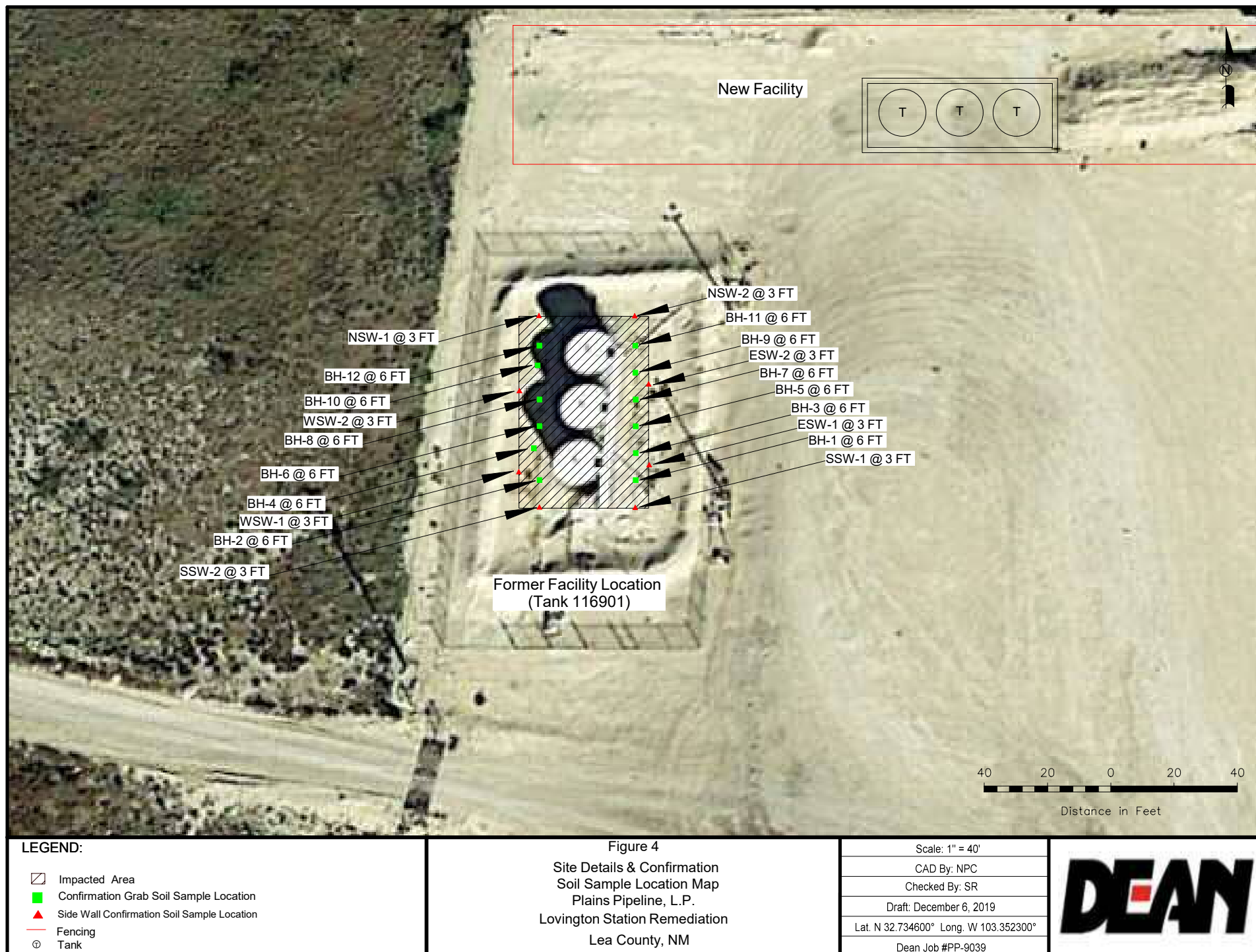
SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: SM4500CL-B	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-1 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-2 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-3 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-4 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-5 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0	<10.0	<10.0
BH-6 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-7 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-8 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-9 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	64	<10.0	<10.0	<10.0	<10.0	<10.0
BH-10 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-11 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-12 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
SW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	197	197	69.1	266.1
SW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	48	<10.0	11.6	11.6	<10.0	11.6
NW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
NW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
EW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
EW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	48	<10.0	<10.0	<10.0	<10.0	<10.0
WW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	78.1	78.1	18.9	97
WW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
NMOCD Recommended Remediation Action Level					10	-	-	-	50	10,000	-	-	1,000	-	2,500

FIGURES









APPENDIX A

NMOCD C-141 FORMS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Marketing, LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lovington Station Tank 117275	Facility Type	Tank
Surface Owner	New Mexico State Land Office	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter H	Section 21	Township 18S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If a Watercourse was Impacted, Describe Fully.*					

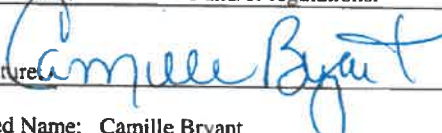

RECEIVED

By OCD District 1 at 2:57 pm, Aug 07, 2015

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area inside the secondary containment measuring approximately 40' X 80'. 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: 	OIL CONSERVATION DIVISION	
Printed Name: Camille Bryant	Approved by District Supervisor: 	
Title: Remediation Coordinator	Approval Date: 08/07/2015	Expiration Date: 10/07/2015
E-mail Address: cjbryant@paalp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/7/15	Site samples required. Delineate and remediate as per NMOCD guides. Geotag photographs of remediation required.	1RP-3791
Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

nKJ1521954222

pKJ1521954545

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

RECEIVED

By JKeyes at 2:47 pm, Jan 19, 2016

Form C-141
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action**OPERATOR**☐ Initial Report ☒ Final Report

Name of Company	Plains Marketing, LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lovington Station Tank 117275	Facility Type	Tank
Surface Owner	New Mexico State Land Office	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	21	18S	36E					Lea

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
		Date and Hour	08/05/2015 @ 15:28		
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

JAN 13 2016

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area inside the secondary containment measuring approximately 40' X 80'. The release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary and Risk-Based Closure Report* dated December 29, 2015 for remediation details.

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.

OIL CONSERVATION DIVISIONSignature: 

Printed Name: Camille Bryant

Approved by District Supervisor: 

Title: Remediation Coordinator

Approval Date: 01/19/2016

Expiration Date:

E-mail Address: cbryant@paalp.com

Conditions of Approval:
RP will remain open until abandonment at which
point remaining contamination will need to be
addressed

Attached ☐

Date: 1/12/2016

Phone: (575) 441-1099

120-3791

* Attach Additional Sheets If Necessary

JAN 13 2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED

By JKeyes at 9:29 am, Jul 08, 2016

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action**OPERATOR**☒ Initial Report ☐ Final Report

Name of Company	Plains Marketing, LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lovington Station Tank 116901	Facility Type	Tank
Surface Owner	New Mexico State Land Office	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	21	18S	36E					Lea

Latitude N 32.73422° Longitude W 103.35255°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	17 bbls	Volume Recovered	15 bbls
Source of Release	Tank	Date and Hour of Occurrence	07/03/2016 @ 08:42	Date and Hour of Discovery	07/03/2016 @ 08:42
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Jamie Keyes		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 116901 resulting in a release of crude oil.					
Describe Area Affected and Cleanup Action Taken. The released crude oil impacted approximately 1,200 square feet inside the secondary containment of the facility. The release 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: 		OIL CONSERVATION DIVISION			
Printed Name: Camille Bryant		Approved by District Supervisor: 			
Title: Remediation Coordinator		Approval Date: 07/08/2016		Expiration Date: 09/08/2016	
E-mail Address: cjbryant@paalp.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 7/8/2016		Phone: (575) 441-1099		Discrete samples only. Delineate and remediate per NMOCD guidelines. 1RP 4340	

* Attach Additional Sheets If Necessary

nJXK1619033991
pJXK1619034092

Page 21 of 115
Received by OCD: 3/5/2020 1:15:01 PM
Released to Imaging: 6/23/2021 11:15:54 AM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED

By JKeyes at 2:47 pm, Jan 19, 2016

Form C-141
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Plains Marketing, LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lovington Station Tank 117275	Facility Type	Tank

Surface Owner	New Mexico State Land Office	Mineral Owner		Lease No.	
---------------	------------------------------	---------------	--	-----------	--

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	21	18S	36E					Lea

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date and Hour	08/05/2015 @ 15:28	
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*



JAN 13 2016

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area inside the secondary containment measuring approximately 40' X 80'. The release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary and Risk-Based Closure Report* dated December 29, 2015 for remediation details.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 		
Printed Name: Camille Bryant			
Title: Remediation Coordinator	Approval Date: 01/19/2016	Expiration Date:	
E-mail Address: cjbryant@paalp.com	Conditions of Approval: RP will remain open until abandonment at which point remaining contamination will need to be addressed		Attached <input type="checkbox"/>
Date: 1/12/2016	Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

1 RP-3791

JAN 13 2016

APPENDIX B
NMOCD EMAIL FOR BACKFILLING/DEFERAL

Jeff Kindley

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Tuesday, September 22, 2015 7:46 AM
To: Lowry, Joel W
Cc: Camille J Bryant; Keyes, Jamie, EMNRD
Subject: RE: Permission to Backfill -- Eastern Portion of Release Site -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation
Attachments: ATT00001.txt

Joel,

Permission to backfill the eastern portion of the site is acceptable. Please keep me informed of the status of the site.

Have a great day!

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
575-370-3180 (emergency-cell)
E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Lowry, Joel W [mailto:Joel.Lowry@terracon.com]
Sent: Monday, September 21, 2015 9:12 AM
To: Jones, Kellie, EMNRD
Cc: Camille J Bryant
Subject: Permission to Backfill -- Eastern Portion of Release Site -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Ms. Jones,

On behalf of Plains Pipeline, Terracon has prepared the attached *Updated Site and Sample Location Map* and *Soil Chemistry Table* for the Lovington Station Tank environmental remediation site (NMOCD Ref. No. 1RP-3791). The release site is located in UL "H", Sec. 21, Township 18 South, Range 36 East on land owned by the State of New Mexico. The GPS coordinates of the release site are 32.73427°, -103.35266°.

On August 28, 2015, upon receiving laboratory analytical results, Terracon requested NMOCD permission to backfill the Western Portion of the remediation site with non-impacted material. Upon receiving NMOCD permission, the western portion was backfilled, allowing environmental personnel to excavation affected soil on the east side of the above – ground storage tanks (ASTs).

The eastern portion of the release site has been excavated to a depth of approximately 2' to 3' bgs. Upon excavating the impacted soil from the eastern portion of the release site, confirmation soil samples were collected from the floor and

sidewalls of the excavated area and submitted to the laboratory for analysis of TPH, BTEX and/or chloride. Laboratory analytical results indicate TPH concentrations ranged from less than the appropriate laboratory reporting limit for soil samples E. Floor @ 2' to 706 mg/kg for soil sample E. AST @ Surf. Benzene, toluene, ethylbenzene and total xylene (BTEX) concentrations were less than the appropriate laboratory reporting limit in each of the analyzed soil samples with the exception of soil sample E. AST @ Surf., which exhibited a total BTEX concentration of 0.00601 mg/kg; concentrations of benzene were less than the appropriate laboratory reporting limit. Soil sample E. Floor was also analyzed for concentrations of chloride, which were determined to be 11.1 mg/kg.

In addition, two (2) soil samples (East RP @ Surf. @ RP @ 18") were collected from beneath the release point on the east side of the southern AST to characterize affected soil left in-situ. Collected soil samples were submitted to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory reporting limit for soil sample RP @ 18" to 16,900 mg/kg for soil sample East RP @ Surf. BTEX concentrations ranged from 0.0239 mg/kg for soil sample RP @ 18" to 0.4205 mg/kg for soil sample East RP @ Surf. Excavated soil is stockpiled on-site, atop a 20-millimeter poly liner, pending final disposition.

Laboratory analytical results indicate TPH and BTEX concentrations were less than NMOCD Regulatory Remediation Action Levels in each of the submitted soil samples with the exception of soil sample East RP @ Surf., which exhibited a TPH concentration of 16,900 mg/kg. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the eastern portion of the remediation site with non-impacted material.

Upon backfilling the eastern portion of the remediation site, affected soil represented by soil sample East RP @ Surf. will be excavated by hand to the maximum extent practicable. Terracon maintains extensive excavation at the release point may compromise the integrity of the AST and pose a safety risk. With NMOCD permission, affected soil remaining in-situ beneath the eastern portion of the southern AST, represented by soil sample East RP @ Surf., will be remediated at time of abandonment (TOA).

If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon

5827 50th Street, Suite 1 | Lubbock, Texas 79424
P (806) 300-0140 | C (432) 466-4450 | F (806) 797-0947
joel.lowry@terracon.com | terracon.com



From: Jones, Kellie, EMNRD [<mailto:Kellie.Jones@state.nm.us>]
Sent: Wednesday, August 26, 2015 8:20 AM
To: Lowry, Joel W
Cc: Camille J Bryant
Subject: RE: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Joel,

Permission to backfill the west side of the excavation.

If you have any questions, please feel free to contact me.

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
575-370-3180 (emergency-cell)
E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

- The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.
- Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Lowry, Joel W [<mailto:Joel.Lowry@terracon.com>]
Sent: Tuesday, August 25, 2015 9:56 AM
To: Jones, Kellie, EMNRD
Cc: Camille J Bryant
Subject: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Ms. Jones,

On behalf of Plains Pipeline, Terracon has prepared the attached *Site and Sample Location Map* and *Soil Chemistry Table* for the Lovington Station Tank environmental remediation site (NMOCD Ref. No. 1RP-3791). The release site is located in UL "H", Sec. 21, Township 18 South, Range 36 East on land owned by the State of New Mexico. The GPS coordinates of the release site are 32.73427°, -103.35266°.

The western portion of the release site has been excavated to a depth of approximately 2.5' to 4' bgs. Upon excavating the impacted soil from the western portion of the release site, confirmation soil samples were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of TPH, BTEX and/or chloride. Laboratory analytical results indicate TPH concentrations ranged from less than the appropriate laboratory reporting limit for soil samples WSW #1 @ 1', W. AST @ Surf., W. AST @ 18", NSW #1 @ 1', N. AST @ Surf. and S. AST @ 3' to 264 mg/kg for soil sample S. AST @ Surf. Benzene, toluene, ethylbenzene and total xylene (BTEX) concentrations were less than the appropriate laboratory reporting limit in each of the analyzed soil samples. Soil samples W. Floor @ 30", N. Floor @ 3' and S. Floor @ 4' were also analyzed for concentrations of chloride, which were determined to be 6.49, 5.73, and 4.66 mg/kg, respectively. Excavated soil is stockpiled on-site, atop a 20-millimeter poly liner, pending final disposition.

Laboratory analytical results indicate TPH, BTEX and/or chloride concentrations are less than NMOC Regulatory Remediation Action Levels in each of the analyzed soil samples. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the western portion of the remediation site with non-impacted material before excavating impacted soil from the eastern portion or the release site. Terracon maintains excavating all sides around the above ground storage tanks (ASTs) simultaneously may compromise the integrity of the tanks and pose a safety risk. If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon

5827 50th Street, Suite 1 | Lubbock, Texas 79424
P (806) 300-0140 | C (432) 466-4450 | F (806) 797-0947
joel.lowry@terracon.com | terracon.com



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Jeff Kindley

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Wednesday, August 26, 2015 8:20 AM
To: Lowry, Joel W
Cc: Camille J Bryant
Subject: RE: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation
Attachments: ATT00001.txt

Joel,

Permission to backfill the west side of the excavation.

If you have any questions, please feel free to contact me.

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
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E-Mail: kellie.jones@state.nm.us

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- Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

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Sent: Tuesday, August 25, 2015 9:56 AM
To: Jones, Kellie, EMNRD
Cc: Camille J Bryant
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Laboratory analytical results indicate TPH, BTEX and/or chloride concentrations are less than NMOCD Regulatory Remediation Action Levels in each of the analyzed soil samples. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the western portion of the remediation site with non-impacted material before excavating impacted soil from the eastern portion of the release site. Terracon maintains excavating all sides around the above ground storage tanks (ASTs) simultaneously may compromise the integrity of the tanks and pose a safety risk. If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon

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APPENDIX C
NEW MEXICO OSE WATER COLUMN/AVERAGE WATER
DEPTH TO GROUNDWATER DATA



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)			
		(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec Tws Rng X Y
L 01632	POD5	4	1	3	21 18S 36E 653213 3622570*

Driller License:	208	Driller Company:	VAN NOY, W.L.		
Driller Name:					
Drill Start Date:	04/30/1978	Drill Finish Date:	05/06/1978	Plug Date:	
Log File Date:	06/01/1978	PCW Rcv Date:	03/06/1981	Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:		Estimated Yield:	1200 GPM
Casing Size:	12.00	Depth Well:	155 feet	Depth Water:	60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	155	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	95	150

*UTM location was derived from PLSS - see Help

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

2/4/20 2:45 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 UTM in meters)		
				Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 07469				2	1	3	21 18S 36E	653213	3622770*

Driller License: 208	Driller Company: VAN NOY, W.L.
Driller Name:	
Drill Start Date: 02/04/1976	Drill Finish Date: 02/08/1976
Log File Date: 02/26/1976	PCW Rcv Date:
Pump Type:	Pipe Discharge Size:
Casing Size: 6.63	Depth Well: 160 feet
	Plug Date:
	Source: Shallow
	Estimated Yield: 30 GPM
	Depth Water: 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	75	100	Sandstone/Gravel/Conglomerate
	106	160	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom	
	120	155	

*UTM location was derived from PLSS - see Help

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

2/4/20 2:45 PM

POINT OF DIVERSION SUMMARY

APPENDIX D

LABORATORY ANALYTICAL REPORTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 15, 2019

SYLWIA REYNOLDS

DEAN

12600 W. COUNTY ROAD 91

MIDLAND, TX 79707

RE: LOVINGTON STATION RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/07/19 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 1 (H903406-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEX	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 2 (H903406-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 (H903406-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 (H903406-04)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 5 (H903406-05)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 6 (H903406-06)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 7 (H903406-07)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 8 (H903406-08)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 9 (H903406-09)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 10 (H903406-10)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 11 (H903406-11)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 12 (H903406-12)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: SW - 1 (H903406-13)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	197	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	69.1	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: SW - 2 (H903406-14)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	11.6	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 1 (H903406-15)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 2 (H903406-16)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: EW - 1 (H903406-17)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW - 2 (H903406-18)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: WW - 1 (H903406-19)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	78.1	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	18.9	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW - 2 (H903406-20)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03		
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50		
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79		
Total BTEX	<0.300	0.300	10/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	211	106	200	1.72	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	227	113	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 78.4 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 10/07/2019
 Reported: 10/15/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039 / REMEDIATION
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: STOCK PILE (H903406-21)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	211	106	200	1.72	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	227	113	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Page 24 of 26



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CARDINAL
Laboratories

 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Dean		BILL TO		ANALYSIS REQUEST							
Project Manager: Sylvia Reynolds		P.O. #:									
Address: 12600 W. Central		Company: Plains									
City: Midland		Attn: Ambergraves									
State: TX Zip: 79707		Address:									
Phone #: (432) 653-4203 Fax #:		City:									
Project #: PP-9039 Project Owner:		State:									
Project Name: Loungston Station Remediation		Zip:									
Project Location: Hobbs, Lea County		Phone #:									
Sampler Name: Debbie Nunez		Fax #:									
FOR LAB USE ONLY		PRESERV.		SAMPLING							
Lab I.D.		Sample I.D.									
H963406											
11 BH-11		(G)RAB OR (C)OMP.									
12 BH-12		# CONTAINERS									
13 SW-1		GROUNDWATER									
14 SW-2		WASTEWATER									
15 NW-1		SOIL									
16 NW-2		OIL									
17 SW-1		SLUDGE									
18 SW-2		OTHER:									
19 NW-1		ACID/BASE:									
20 NW-2		ICE / COOL									
		OTHER:									
		DATE									
		TIME									
		TPH		8015 m Ext							
		BTEX		8021							
		Chlorides									

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Relinquished By: Debbie Nunez	Date: 10-7-19	Received By: Ambergraves	Received Date: 10-7-19	Time: 16:00
Relinquished By: Debbie Nunez	Date: 10-7-19	Received By: Ambergraves	Received Date: 10-7-19	Time: 16:00

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No

Turnaround Time: **10-12 AM**

Thermometer ID #97 Correction Factor + 0.4 °C

Standard ☐ Bacteria (only) ☐ Sample Condition ☐ Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

Remarks: **Sylvia Reynolds@deanlabs.com**
Ambergraves@deanlabs.com
Debbie Nunez@deanlabs.com

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 26 of 26



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 02, 2019

SYLWIA REYNOLDS

DEAN

12600 W. COUNTY ROAD 91

MIDLAND, TX 79707

RE: LOVINGTON STATION RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/19 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	09/27/2019	Sampling Date:	09/27/2019
Reported:	10/02/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: NT @ 2' (H903327-01)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTEx	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NT @ 4' (H903327-02)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTX	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NT @ 6' (H903327-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.2 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ET @ 2' (H903327-04)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTX	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.5 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ET @ 4' (H903327-05)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ET @ 6' (H903327-06)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.7 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WT @ 2' (H903327-07)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	09/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	09/27/2019	Sampling Date:	09/27/2019
Reported:	10/02/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: WT @ 4' (H903327-08)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTEx	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	11.9	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WT @ 6' (H903327-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.2 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ST @ 2' (H903327-10)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ST @ 4' (H903327-11)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	85.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	25.4	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ST @ 6' (H903327-12)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: RLP @ 2' (H903327-13)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTX	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	21.5	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: RLP @ 4' (H903327-14)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	479	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	129	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.1 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: RLP @ 6' (H903327-15)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTX	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.3 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	17.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 1 (H903327-16)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEx	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	242	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	61.1	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Dean		P.O. #:	
Project Manager: Sylvia Reynolds		Company: Palm	
Address: 12000 NCL-1		Attn: Frank	
City: Midland		Address: Camille	
State: TX Zip: 79707		City: Bryant	
Phone #: 432-227-5309 Fax #: 79707		State: TX Zip: 79707	
Project #: PR-9039 Project Owner: Lea County		Phone #: 432-227-5309	
Project Location: Lea County		Fax #: 575-441-1099	
Sample Name: Procter Miller			

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
H903327							
1	NT @ 2 FT						
2	NT @ 4 FT						
3	NT @ 6 FT						
4	FT @ 2 FT						
5	FT @ 4 FT						
6	FT @ 6 FT						
7	WT @ 2 FT						
8	WT @ 4 FT						
9	WT @ 6 FT						
10	WT @ 2 FT						

DATE	TIME	TPH (8015 Ext)	BTEX 8021	Chlorides						
9/27	8:00	X	X	X						
	8:15									
	8:30									
	9:00									
	9:15									
	9:30									
	9:45									
	10:00									
	10:15									
	10:30									

Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
REMARKS: Procter Miller standard 10.15 Sylvia Reynolds standard 10.15 10.15	

Page 20 of 20



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

APPENDIX E

PHOTOGRAPHIC DOCUMENTATION

Photograph No 1.

Date: September 26, 2019

Direction: Southwest

Description: View of excavation at former tank battery location.



Photograph No 2.

Date: September 30, 2019

Direction: West

Description: View of excavation of former tank battery.



Photograph No 3.

Date: October 7, 2019

Direction: Northwest

Description: View of completed excavation at former tank battery location.



Photograph No 4.

Date: October 29, 2019

Direction: Southwest

Description: View of backfilled excavation.



APPENDIX F FIELD DATA



TASK DESCRIPTION: Sample location

COMPLETED BY: Jose bellac

JOB NUMBER: Pp 9039

PH:432-653-4203

DATE: 10/07/19

JOB LOCATION: Covington station remediation

TIME: 5:00 AM - 7:00 PM

DAILY LOG

WEATHER: Cloudy

TIME		DESCRIPTION
FROM	TO	
6:00 AM	8:00 AM	Left shop drove to location
8:00 AM	11:00 AM	Pulled 20 samples 12 floor sample 8 wall samples
		Bh 1 chl- non detect. Pid 1.3
		BH 2 chl non detect. Pid 1.0
		BH 3 chl non detect. Pid .5
		BH-4 chl non detect. Pid 2.4
		BH-5 chl 180. Pid 2.2
		BH-6 chl non detect. Pid 1.0
		BH-7 non detect. Pid 1.8
		BH-8 non detect Pid 2.0
		BH-9 chloride - 152 pid 1.1
		BH-10 non detect Pid 1.7
		BH-11 non detect Pid 1.2
		BH-12 non detect Pid 1.5
		Sw-1 non detect Pid 27.1
		Sw-2 non detect Pid 1.8
		NW-1 non detect Pid .9
		EW-1 non detect Pid 1.0
		EW-2 non detect Pid 1.5
		WW-1 non detect Pid 12.8
		WW-2 non detect Pid .9
1:00 PM	2:00 PM	Finished running all samples for chlorides, and pid the samples then put them in jars.
2:00 PM	3:00 PM	Drove to hobbs to wassen to meet with Robert to check coc
3:00 PM	4:00 PM	Robert and I double checked coc on samples.
4:00 PM	5:00 PM	Drove to cardinal lab to drop off samples.
5:00 PM	7:00 PM	Drove to shop excavation 60 feet long x 40 feet wide x 6 feet deep. Also pulled stock pile sample and a waste characterization sample

SUPERVISOR:

APPENDIX G WASTE MANIFESTS

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: A7

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

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 1200

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
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

1 Load

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

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

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:Name: Chad P. Paine, L.P.Address: 500 Big Spring St, Suite 600Phone #: 804-777-9039

Originating Location of waste material:

Lease Name: Longhorn Station

Sec. _____ T _____ R _____

Transporter Information:Name: Protec Trucking Services, LLC

Address: _____

Phone #: _____

Driver Signature: Douglas PaineDate: 10-25-19**Non-Hazardous Hydro-Carbons:**# of Yards: 24Waste material placed in cell number: 117Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # 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

2 loads

Lazy Ace Landfarm

Lease Operator Information:Name: LAZY ACE LANDFARM, L.L.C.Address: 500 W. SPRING ST. SUITE 100Phone #: 505-211-9039

Originating Location of waste material:

Lease Name: INTERTON STATION

Sec. _____ T _____ R _____

Transporter Information:Name: JOHN J. BERRY, JR.Address: P.O. BOX 2637Phone #: 505-342-5294Driver Signature: [Signature]Date: 11-25-19**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 88231Permit # 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

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

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

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 211

Waste material placed in cell number: _____

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

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:Name: Winters Pipeline LPAddress: 500 Air Springs St Suite 600Phone #: 714 4717 9039

Originating Location of waste material:

Lease Name: Livingston ShaleSec. T R **Transporter Information:**Name: Winters Pipeline LPAddress: 500 Air Springs St Suite 600Phone #: 714 4717 9039Driver Signature: [Signature]Date: 10-25-17**Non-Hazardous Hydro-Carbons:**# of Yards: 24 ydsWaste 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

2 loads

Lease Operator Information:

Phone #: Midland 7x 79701

Originating Location of waste material:

Sec. _____ T _____ R _____

Transporter Information:

Date: 10 28 17

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

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: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 224

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: LAZY ACE LANDFARM LPAddress: 300 - PRINCE ST SUITE 600

Phone #: _____

Originating Location of waste material:

Lease Name: LAZY ACE LANDFARM

Sec. _____ T _____ R _____

Transporter Information:Name: JSC CASTRO

Address: _____

Phone #: 755 372 2414Driver Signature: JSC CASTRODate: 10-27-2017**Non-Hazardous Hydro-Carbons:**# of Yards: 12-13Waste material placed in cell number: A7Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # 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:**Name: Plains Pipeline LPAddress: 500 Pegasus St Suite 100

Phone #: _____

Originating Location of waste material:

Lease Name: Leasing Tru Station

Sec. _____ T _____ R _____

Transporter Information:Name: Co2 TransportAddress: 108 E Mesquite Dr Hobbs, N.M. 88240Phone #: 575-399-8500Driver Signature: [Signature]Date: 10-25-19**Non-Hazardous Hydro-Carbons:**# of Yards: 12Waste material placed in cell number: A-7Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # 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:**

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

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

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:Name: Royce TruckingAddress: 3265 Thorp. Hobbs NM 88240Phone #: 432-209 0208Driver Signature: Alex LopezDate: 10-28 19**Non-Hazardous Hydro-Carbons:**# of Yards: 21

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:

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(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:**

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 241

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

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline L.P.
Address: 500 Big Spring St., Suite 600
Phone #: Milledale TX 79701

Originating Location of waste material:

Lease Name: Longhorn Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Plains Pipeline L.P.
Address: 500 Big Spring St., Suite 600
Phone #: 409.227.2208
Driver Signature: [Signature]
Date: 10-27-17

Non-Hazardous Hydro-Carbons:# of Yards: 48 yds

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:

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Facility Representative: _____ Date: _____
White - Original Canary - Invoice Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
(575) 393-6964 - Home
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plain Pipeline LP
Address: 500 Big Spring St. Sub 600 Midland TX 79701
Phone #: _____

Originating Location of waste material:

Lease Name: Livingston Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Acid Trucking
Address: 370 S. 1st St. N. 88240
Phone #: 432-207-0208
Driver Signature: _____
Date: 10-29-19

Non-Hazardous Hydro-Carbons:# of Yards: 48

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:

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(575) 393-6964 - Home
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Facility Representative: _____ Date: _____
White - Original Canary - Invoice Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:Name: LAZY ACE LANDFARM LPAddress: 500 S. PINE ST. STATE

Phone #: _____

Originating Location of waste material:

Lease Name: LOUISIANA STATE

Sec. _____ T _____ R _____

Transporter Information:Name: LAZY ACE LANDFARM LPAddress: 500 S. PINE ST. STATEPhone #: 504-790-7414Driver Signature: J. C. CHAPMANDate: 10-27-2019**Non-Hazardous Hydro-Carbons:**# of Yards: 36Waste material placed in cell number: A7Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # 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

Lazy Ace Landfarm

Lease Operator Information:

Name: Pranav Pradeep K R

Address: 1000 Pina Street, St. Louis, MO 63101

Phone #: _____

Originating Location of waste material:

Lease Name: Lease 1000

Sec. _____ T _____ R _____

Transporter Information:

Name: ENS Rony Talbot

Address: 108 E. Main St. Oshkosh, WI 54901

Phone #: 575-394-9506

Driver Signature: Ronald Smith

Date: 10-27-19

Non-Hazardous Hydro-Carbons:

of Yards: 45

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:

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm**Lease Operator Information:**

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____
Address: _____
Phone #: _____

Originating Location of waste material:

Lease Name: _____
Sec. _____ T _____ R _____

Transporter Information:

Name: _____
Address: _____
Phone #: _____
Driver Signature: _____
Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 48

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:

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Facility Representative: _____ Date: _____
White - Original Canary - Invoice Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:Name: LAZY ACE LANDFARM L.P.Address: 500 N. 2nd St. Suite 100

Phone #: _____

Originating Location of waste material:

Lease Name: LAZY ACE LANDFARM L.P.

Sec. _____ T _____ R _____

Transporter Information:Name: LAZY ACE LANDFARM L.P.Address: 500 N. 2nd St. Suite 100

Phone #: _____

Driver Signature: [Signature]Date: 10-29-19**Non-Hazardous Hydro-Carbons:**# of Yards: 240Waste material placed in cell number: A-7Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
(575) 393-6964 - Home
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm**Lease Operator Information:**Name: PLAINS PIPELINE LPAddress: 500 SPRING STATION

Phone #: _____

Originating Location of waste material:

Lease Name: LOVINGTON STATION

Sec. _____ T _____ R _____

Transporter Information:Name: TSC (P-100)

Address: _____

Phone #: 575-370-2414Driver Signature: TSC (P-100)Date: 10-30-2017**Non-Hazardous Hydro-Carbons:**# of Yards: 36Waste material placed in cell number: A7Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

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Facility Representative: Danny Berry Date: 10-30-17

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

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 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

P.O. 4737-9039

Manifest #

Lazy Ace Landfarm**Lease Operator Information:**

Name: Plains Pipeline, L.P.
Address: 500 R.P. Springs St. Suite 600
Phone #: Milford TX 79701

Originating Location of waste material:

Lease Name: Landfill Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Rock Trucking LLC
Address: 326 S. 7th St
Phone #: 817 209 0208
Driver Signature: [Signature]
Date: 10-30-19

Non-Hazardous Hydro-Carbons:# of Yards: 36 yds

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:

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm**Lease Operator Information:**

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 36

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E**Contacts:**Danny Berry
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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm**Lease Operator Information:**

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:# of Yards: 36

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

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Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 4342

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay St, Ste 1600 Houston, TX 77002	OGRID: 34053
	Action Number: 4342
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
kcollins	1RP 4340 is approved closure 1RP 3791 is deferred	6/23/2021