

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Plains Pipeline, LP	Contact: Camille Bryant
Address: 2530 State Hwy 214, Denver City, TX 79323	Telephone No.: (575) 441-1099
Facility Name: Jal Tank Farm Tank Booster 1287	Facility Type: Pump

Surface Owner: Plains Pipeline, L.P.	Mineral Owner	API No. 30-025-12803
--------------------------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter P	Section 32	Township 25S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude N 32.08076° Longitude W 103.17807°

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 10 bbls	Volume Recovered: 0 bbls
Source of Release: Pump	Date and Hour of Occurrence: 2/21/2015 @ 1030	Date and Hour of Discovery: 2/21/2015 @ 1030
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Verbal notification to Bill Sonnamaker (Voicemail)	
By Whom? Camille Bryant	Date and Hour 2/21/2015 @ 1300	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

APPROVED

By Kellie Jones at 3:20 pm, Oct 22, 2015

HOBBS OCD

OCT 20 2015

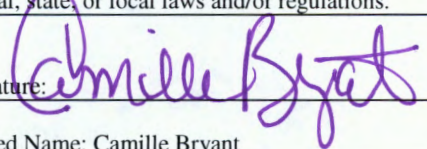
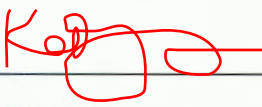
RECEIVED

Describe Cause of Problem and Remedial Action Taken.* The pump driver on (electric motor) bearings failed which transferred misalignment, heat, and vibration to the pump and mechanical seal assembly and caused subsequent seal failure. Failure of the mechanical seal allowed crude oil to escape and ignite. The release was confined inside the firewall at the facility. The fire was extinguished and the seal, motor, and pipe was replaced.

Describe Area Affected and Cleanup Action Taken.*

The area of impact was excavated and soil samples were collected from the floor and/or sidewalls of the excavation. Soil samples were submitted to the laboratory and analyzed for concentrations of BTEX and TPH. In addition, select samples were analyzed for concentrations of chloride. Excavated soil was remediated in an on-site treatment cell and utilized as backfill with NMOCD approval. Please reference the "Remediation Summary and Site Closure Request" dated October 2015 for additional 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.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Camille Bryant	Approved by Environmental Specialist: 		
Title: Remediation Coordinator	Approval Date: 10/22/2015	Expiration Date: //	
E-mail Address: cjbryant@paalp.com	Conditions of Approval: //		Attached <input type="checkbox"/> 1RP 3570
Date: 10/20/15	Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

RECEIVED

By Kellie Jones at 3:20 pm, Oct 22, 2015

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 Pipeline LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Jal Tank Farm Tank Booster 1287	Facility Type	Pump
Surface Owner	Plains Pipeline, LP	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
P	32	25S	37E					Lea

Latitude N 32.08076° Longitude W 103.17807°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Pump	Date and Hour of Occurrence	02/21/2015 @ 10:30	Date and Hour of Discovery	02/21/2015 @ 10:30
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Verbal notification to Bill Sonnamaker (voicemail)		
By Whom?	Camille Bryant	Date and Hour	02/21/2015 @ 13:00		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

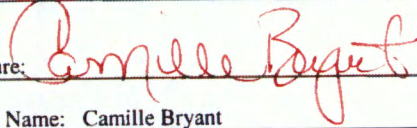

By OCD; Dr. Oberding at 9:46 am, Mar 11, 2015

Describe Cause of Problem and Remedial Action Taken.* The pump driver on (electric motor) bearings failed which transferred misalignment, heat, and vibration to the pump and mechanical seal assembly and caused subsequent seal failure. Failure of the mechanical seal allowed crude oil to escape and ignite. The release was confined inside the firewall at the facility. The fire was extinguished and the seal, motor and pipe was replaced.

Describe Area Affected and Cleanup Action Taken. The released crude oil was contained inside the firewall of the facility. 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 	
Printed Name: Camille Bryant	Approval Date: 03/11/2015	Expiration Date: 06/11/2015
Title: Remediation Coordinator	Conditions of Approval: Site samples required. Delineate and remediate area as per NMOCD guides.	Attached <input type="checkbox"/> IRP-3570 34053
E-mail Address: cjbryant@paalp.com	Date: 3/10/15	Phone: (575) 441-1099

* Attach Additional Sheets If Necessary

nTO1508239951

fTO1508239710

pTO1508240264

Stanley, Curtis D.

From: Camille J Bryant <CJBryant@paalp.com>
Sent: Thursday, June 18, 2015 10:44 AM
To: Stanley, Curtis D.
Subject: Fwd: Plains Jal Tank Farm Booster 1287 1R-3570

Sent from my iPhone

Begin forwarded message:

From: "Oberding, Tomas, EMNRD" <Tomas.Oberding@state.nm.us>
Date: June 18, 2015 at 9:09:53 AM MDT
To: Camille J Bryant <CJBryant@paalp.com>
Subject: RE: Plains Jal Tank Farm Booster 1287 1R-3570

Good morning Camille!
Thank you for the update.
OCD approves the backfill.
Be safe out there please.
Cheers
-Tomas

Tomáš 'Doc' Oberding PhD
Hydrologist, Adv-District 1
Oil Conservation Division, EMNRD
(505) 476-3403
E-Mail: tomas.oberding@state.nm.us
一期一会

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.
- Geotagged photographic documentation is stipulated for all events involving liquids.

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

From: Camille J Bryant [<mailto:CJBryant@paalp.com>]
Sent: Thursday, June 18, 2015 7:51 AM
To: Oberding, Tomas, EMNRD
Subject: Plains Jal Tank Farm Booster 1287 1R-3570

Good Morning Tomas,

Please find attached the Soil Chemistry Table for the Plains Jal Tank Farm Booster 1287 Release Site 1R-3570. As per our discussion, Plains respectfully requests NMOCD approval to backfill the excavated area with the remediated stockpiled soil. Please contact me with any questions.

Respectfully,

Camille J. Bryant

Remediation Coordinator

Plains All American

2530 State Highway 214

Denver City, Texas 79323

Office: 806.592.2555

Cell: 575.441.1099

Fax: 806.592.7479

Email: cjbryant@paalp.com

Attention:

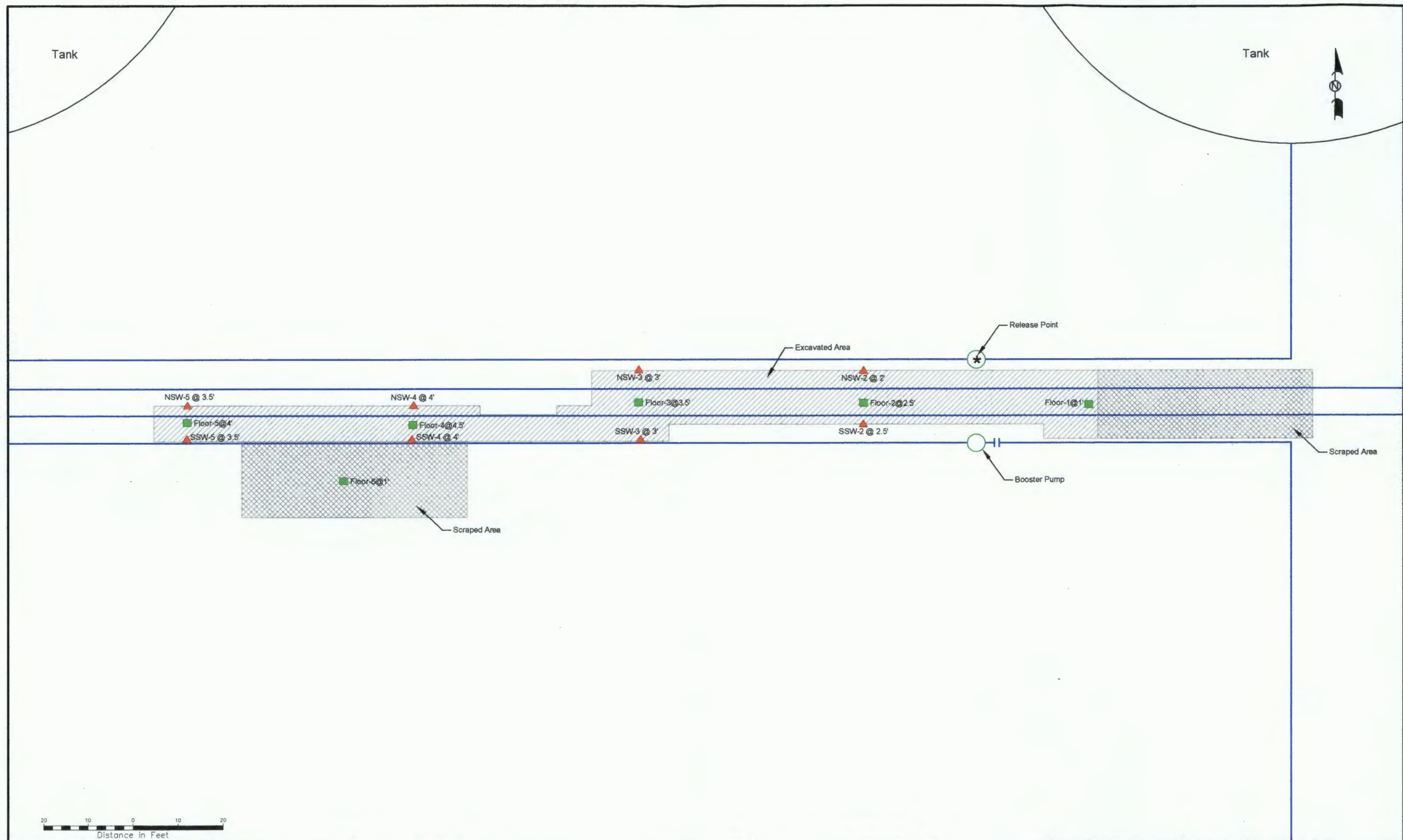
The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any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

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

Attention:

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

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LEGEND:

- ▲ Sidewall Soil Sample Location
- Floor Soil Sample Location
- Above Ground Piping
- Booster Pump

Figure 2
Site Details & Confirmation
Soil Sample Locations
Plains Pipeline LP.
Jal Tank Farm Booster 1287
Lea County, NM

Scale: 1" = 20'
CAD By: TA
Checked By: CS
Date: April 15, 2015
Lat. N 32.080650°, Long. W 103.178036°
SW1/4 SW1/4 Sec 32 T25S R37E



REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

JAL TANK FARM TANK BOOSTER 1287
UNIT LETTER "P", SECTION 32, TOWNSHIP 25 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
SRS #: 2015-044
NMOCD Reference: 1RP-3570

HOBBS OCD

OCT 20 2015

Prepared for:

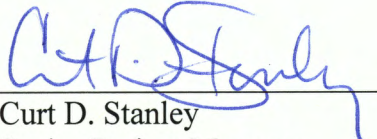
Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

RECEIVED

Prepared by:

TRC Environmental Corporation
2057 Commerce Drive
Midland, Texas 79703

October 2015


Curt D. Stanley
Senior Project Manager

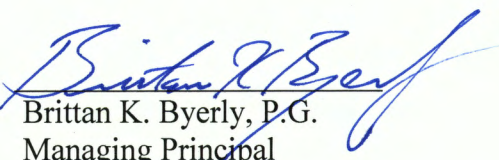

Brittan K. Byerly, P.G.
Managing Principal

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FIGURES

Figure 1: Site Location Map

Figure 2: Site Details and Confirmation Soil Sample Location Map

TABLES

Table 1: Concentrations of BTEX, TPH and Chloride in Soil

APPENDICES

Appendix A: Site Photographs

Appendix B: Laboratory Analytical Data

Appendix C: Release Notification and Corrective Action (Form C-141)

1.0 INTRODUCTION AND BACKGROUND

On behalf of Plains Pipeline, L.P. (Plains), TRC Environmental Corporation (TRC) has prepared this Remediation Summary and Site Closure Request for the crude oil release site known as Jal Tank Farm Tank Booster 1287 (SRS: 2015-044). The Release Site is located approximately three (3) miles south of Jal, New Mexico, in Unit Letter "P", Section 32, Township 25 South, Range 37 East. A topographic location map and site map depicting the soil sample locations are provided as Figures 1 and 2, respectively. The Release Site is located on property owned by Plains All American Pipeline (Plains). On February 21, 2015, bearings on a pump driver (electric motor) failed, which resulted in the misalignment and vibration of the pump assembly. These factors, along with the resulting heat generated, caused the failure of the mechanical seal assembly. The failure of the mechanical seal allowed crude oil to be released and ignite. The release was confined inside the secondary containment of the facility. Approximately ten (10) bbls of crude oil was released and none was recovered during the initial response activities, resulting in a net loss of approximately ten (10) bbls of crude oil. An area of impact measuring approximately six (6) to twenty-five (25) feet in width and two hundred fifty (250) feet in length was observed on the ground surface. Site photographs are provided as Appendix A. The Release Notification and Corrective Action (Form C-141) is included as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 32, Township 25 South, Range 37 East. An inferred depth of groundwater reference map utilized by The New Mexico Oil Conservation Division (NMOCD) indicates groundwater should be encountered at approximately one hundred ten (110) feet below ground surface (bgs). Shell Pipeline Company, LP (Shell) has installed monitor wells in Unit Letter P, Section 32, Township 25 South, Range 37 East and groundwater elevation data indicates groundwater was encountered at approximately eighty-five (85) feet bgs. Based on the NMOCD site classification system and utilizing Shell groundwater elevation data, 10 points will be assigned to the Release Site ranking as a result of this criterion.

There are no registered water wells located within 1,000 feet of the Release Site. Based on the NMOCD Site Classification System, no points will be assigned to the Release Site ranking as a result of this criterion.

There are no surface-water features located within a 1,000 foot radius of the site. Based on the NMOCD Site Classification System, no points would be assigned to the site as a result of this criterion. The NMOCD guidelines indicate the Site has a Ranking Score of ten (10) points. The regulatory guidelines for a Release Site with a Ranking Score of ten (10) points are as follows:

- Benzene - 10 mg/Kg
- BTEX - 50 mg/Kg
- TPH - 1,000 mg/Kg

3.0 SUMMARY OF FIELD ACTIVITIES

On March 12, 2015, remediation activities commenced at the Release Site. Impacted soil was hand excavated near and under the aboveground pipeline and a backhoe was utilized in open areas. The completed excavation measured approximately six (6) feet to twenty-five (25) feet in width, two-hundred fifty seven (257) feet in length and approximately six (6) inches to four and one half (4.5) feet in depth. Impacted soil was stockpiled on plastic to the south of the excavation outside of the secondary containment wall.

On March 31, 2015, eight (8) sidewall soil samples (NSW-2 @ 2', SSW-2 @ 2.5', NSW-3 @ 3', SSW-3 @ 3', NSW-4 @ 4', SSW-4 @ 4', NSW-5 @ 3.5', and SSW-5 @ 3.5') were collected and submitted to the laboratory for analysis of concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) using Method SW-846 8021B and total petroleum hydrocarbon (TPH) using Method SW 846-8015M. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for all submitted soil samples. TPH concentrations were less than the laboratory method detection limit (MDL) for all soil samples, with the exception of soil sample NSW-2 @ 2' which exhibited TPH concentration of 113.2 mg/Kg. Please reference Figure 2 for soil sample locations. A table summarizing Concentrations BTEX, TPH, and Chloride in Soil is provided as Table 1. Laboratory Analytical Reports are provided as Appendix B.

On March 31, 2015, six (6) excavation floor soil samples (Floor-1 @ 1', Floor-2 @ 2.5', Floor-3 @ 3.5', Floor-4 @ 4.5', Floor-5 @ 4', and Floor-6 @ 1') were collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. In addition, soil sample Floor-1 @ 1' was analyzed for concentrations of chloride. The analytical results indicated the chloride concentration for soil sample Floor-1 @ 1' was 4.33 mg/Kg. Please reference Figure 2 for soil sample locations.

Based on the analytical results of the March 31, 2015 soil sampling event, no additional excavation was warranted.

Plains opted to remediate the impacted soil stockpile by blending and mixing the impacted soil and placing the soil in an on-site treatment cell augmented with high nitrogen fertilizer to expedite the bioremediation of the impacted soil. A total of approximately 508 cubic yards (cy) of impacted soil was excavated from the Release Site and treated in the treatment cell.

On May 15, 2015, one (1) – five (5) point composite soil sample (SP-1) was collected from the on-site treatment cell and submitted to the laboratory for analysis. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL and the TPH concentration was 281.925 mg/Kg. Based on the analytical results, the remediated soil within the treatment cell was deemed suitable for use as backfill.

On June 18, 2015, Plains requested and received permission from the NMOCD, to backfill the excavation with the remediated soil stockpiled south of the excavation outside of the secondary containment wall.

From July 7, 2015 through July 17, 2015, excavation backfilling activities were conducted.

4.0 SITE CLOSURE REQUEST

TRC recommends Plains provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant site closure status to the Jal Tank Farm Tank Booster 1287 release of February 21, 2015.

5.0 LIMITATIONS

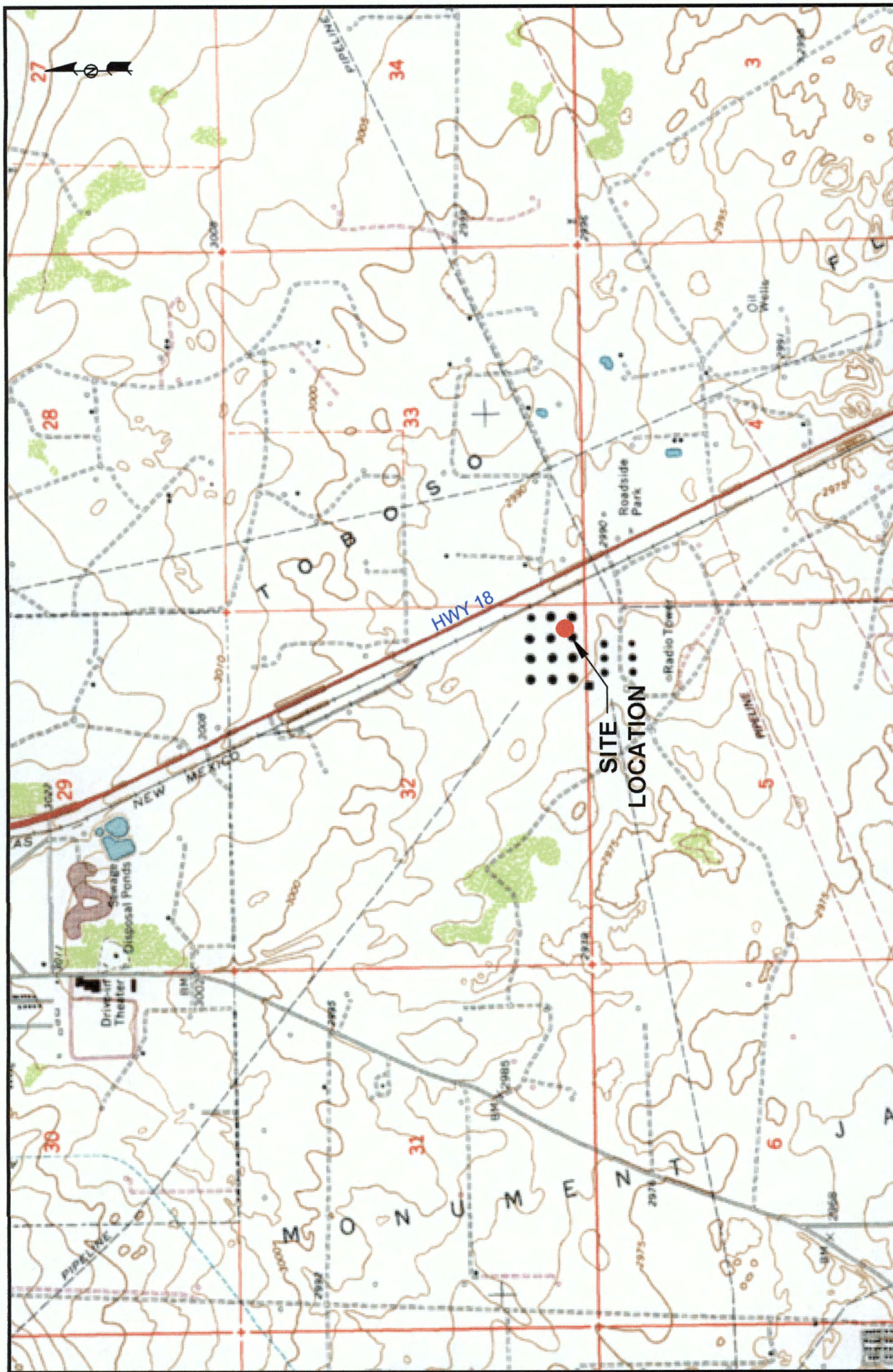
TRC Environmental Corporation has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC Environmental Corporation has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC Environmental Corporation has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC Environmental Corporation has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC Environmental Corporation also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

6.0 DISTRIBUTION

- Copy 1: Kellie Jones
New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
- Copy 2: Camille Bryant
Plains Pipeline, L.P.
2530 Hwy 214
Denver City, Texas 79323
- Copy 3: Jeff Dann
Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, TX 77002
jpdann@paalp.com
- Copy 4: TRC Environmental Corporation
2057 Commerce Drive
Midland, TX 79703
cdstanley@trcsolutions.com



LEGEND:

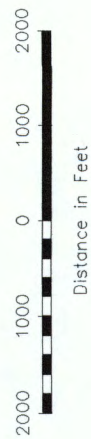


Figure 1

Site Location Map
 Plains Pipeline, LP.
 Jal Tank Farm Booster 1287
 Lea County, NM

Scale: 1" = 2000'

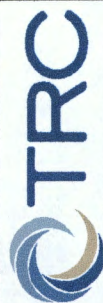
CAD By: TA

Checked By: RNH

Draft: April 15, 2015

Lat. N 32.080650° Long. W 103.178036°

SW1/4 SW1/4 Sec 32 T25S R37E



2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

TABLE 1
CONCENTRATIONS OF BTEX, TPH AND CHLORIDE IN SOIL

JAL TANK FARM TANK BOOSTER #1287
PLAINS PIPELINE, L.P.
LEA COUNTY, NM
NMOCD Reference Number 1RP-3570
PLAINS SRS NUMBER: 2015-044

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (feet)	Methods: EPA SW 846-8021B, 5030						Methods:				Methods:
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	m,p, XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	
NMOCD Regulatory Guideline			10	-	-	-	-	50	-	-	-	1,000	250
Floor-1 @ 1'	03/31/15	1'	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00108	<0.00215	<26.9	<26.9	<26.9	4.33
Floor-2 @ 2.5'	03/31/15	2.5'	<0.00105	<0.00211	<0.00105	<0.00211	<0.00105	<0.00105	<0.00211	<26.3	<26.3	<26.3	-
NSW-2 @ 2'	03/31/15	2'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00104	<0.00208	<26.0	77.5	35.7	113.2
SSW-2 @ 2.5'	03/31/15	2.5'	<0.00106	<0.00106	<0.00213	<0.00106	<0.00213	<0.00213	<0.00213	<26.6	<26.6	<26.6	-
Floor-3 @ 3.5'	03/31/15	3.5'	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00108	<0.00215	<26.9	<26.9	<26.9	-
NSW-3 @ 3'	03/31/15	3'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00104	<0.00208	<26.0	<26.0	<26.0	-
SSW-3 @ 3'	03/31/15	3'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00104	<0.00208	<26.0	<26.0	<26.0	-
Floor-4 @ 4.5'	03/31/15	4.5'	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00103	<0.00206	<25.8	<25.8	<25.8	-
NSW-4 @ 4'	03/31/15	4'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00104	<0.00208	<26.0	<26.0	<26.0	-
SSW-4 @ 4'	03/31/15	4'	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00103	<0.00206	<25.8	<25.8	<25.8	-
Floor-5 @ 4'	03/31/15	4'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00104	<0.00206	<26.0	<26.0	<26.0	-
NSW-5 @ 3.5'	03/31/15	3.5'	<0.00105	<0.00211	<0.00105	<0.00211	<0.00105	<0.00105	<0.00208	<26.0	<26.0	<26.0	-
SSW-5 @ 3.5'	03/31/15	3.5'	<0.00105	<0.00211	<0.00105	<0.00211	<0.00105	<0.00105	<0.00211	<26.3	<26.3	<26.3	-
Floor-6 @ 1'	03/31/15	1'	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00108	<0.00215	<26.3	<26.3	<26.3	-
SP-1	05/15/15	-	<0.00106	<0.00213	<0.00106	<0.00213	<0.00106	<0.00106	<0.00213	<26.596	236.51	45.415	281.925
													-

Photographic Documentation

Client: Plains Pipeline L.P.

Project Name: Jal Tank Farm Tank Booster 1287

Prepared by: TRC Environmental Corp.

Location: Lea County, NM

Photograph No. 1

Date:
March 15, 2015

Description:
Looking west

**Impacted area
prior to excavation
and remediation.**



Photograph No. 2

Date:
March 19, 2015

Description:
Looking west

**Excavation
activities in
progress.**



Photographic Documentation

Client: Plains Pipeline L.P.

Project Name: Jal Tank Farm Tank Booster 1287

Prepared by: TRC Environmental Corp.

Location: Lea County, NM

Photograph No. 3

Date:
March 31, 2015

Description:
Looking east.

Excavation of impacted soil is complete and soil samples collected. Release point (transfer pump) is at top center of photo.



Photograph No. 4

Date:
July 15, 2015

Description:
Looking east.

Backfill activities complete.



**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Plains Jal Tank Farm Tank Booster 1287

Project Number: SRS# 2015-044

Location: Lea County, NM

Lab Order Number: 5D01008



NELAP/TCEQ # T104704156-13-3

Report Date: 04/07/15

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor-1 @ 1'	5D01008-01	Soil	03/31/15 14:00	04-01-2015 14:16
Floor-2 @ 2.5'	5D01008-02	Soil	03/31/15 14:05	04-01-2015 14:16
NSW-2 @ 2'	5D01008-03	Soil	03/31/15 14:10	04-01-2015 14:16
SSW-2 @ 2.5'	5D01008-04	Soil	03/31/15 14:15	04-01-2015 14:16
Floor-3 @ 3.5'	5D01008-05	Soil	03/31/15 14:20	04-01-2015 14:16
NSW-3 @ 3'	5D01008-06	Soil	03/31/15 14:25	04-01-2015 14:16
SSW-3 @ 3'	5D01008-07	Soil	03/31/15 14:30	04-01-2015 14:16
Floor-4 @ 4.5'	5D01008-08	Soil	03/31/15 14:35	04-01-2015 14:16
NSW-4 @ 4'	5D01008-09	Soil	03/31/15 14:40	04-01-2015 14:16
SSW-4 @ 4'	5D01008-10	Soil	03/31/15 14:45	04-01-2015 14:16
Floor-5 @ 4'	5D01008-11	Soil	03/31/15 14:50	04-01-2015 14:16
NSW-5 @ 3.5'	5D01008-12	Soil	03/31/15 14:55	04-01-2015 14:16
SSW-5 @ 3.5'	5D01008-13	Soil	03/31/15 15:00	04-01-2015 14:16
Floor-6 @ 1'	5D01008-14	Soil	03/31/15 15:05	04-01-2015 14:16

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-1 @ 1'
5D01008-01 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.3 %	75-125		P5D0705	04/07/15	04/07/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.8 %	75-125		P5D0705	04/07/15	04/07/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-2 @ 2.5'
5D01008-02 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.8 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		71.0 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		82.4 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

NSW-2 @ 2'
5D01008-03 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.4 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C12-C28	77.5	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C28-C35	35.7	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		79.1 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		91.6 %	70-130		P5D0609	04/01/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	113	26.0	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79703

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Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

SSW-2 @ 2.5'

5D01008-04 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.8 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	6.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-3 @ 3.5'

5D01008-05 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.1 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79703

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Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

NSW-3 @ 3'
5D01008-06 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.1 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

SSW-3 @ 3'
5D01008-07 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.7 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79703

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Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-4 @ 4.5'
5D01008-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.0 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	3.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79703

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Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

NSW-4 @ 4'
5D01008-09 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.2 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

SSW-4 @ 4'
5D01008-10 (Soil)

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

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P5D0603	04/02/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-5 @ 4'
5D01008-11 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.3 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.1 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

NSW-5 @ 3.5'

5D01008-12 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.5 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

SSW-5 @ 3.5'

5D01008-13 (Soil)

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

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Floor-6 @ 1'
5D01008-14 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P5D0703	04/06/15	04/06/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch P5D0703 - General Preparation (GC)

Blank (P5D0703-BLK1)

Prepared & Analyzed: 04/06/15

Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00200	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 4-Bromofluorobenzene	0.0607		"	0.0600		101		75-125	
Surrogate: 1,4-Difluorobenzene	0.0516		"	0.0600		86.0		75-125	

LCS (P5D0703-BS1)

Prepared & Analyzed: 04/06/15

Benzene	0.105	0.00100	mg/kg wet	0.100		105		70-130	
Toluene	0.113	0.00200	"	0.100		113		70-130	
Ethylbenzene	0.111	0.00100	"	0.100		111		70-130	
Xylene (p/m)	0.225	0.00200	"	0.200		112		70-130	
Xylene (o)	0.115	0.00100	"	0.100		115		70-130	
Surrogate: 4-Bromofluorobenzene	0.0631		"	0.0600		105		75-125	
Surrogate: 1,4-Difluorobenzene	0.0599		"	0.0600		99.8		75-125	

LCS Dup (P5D0703-BSD1)

Prepared & Analyzed: 04/06/15

Benzene	0.0941	0.00100	mg/kg wet	0.100		94.1	70-130	10.7	20
Toluene	0.102	0.00200	"	0.100		102	70-130	10.0	20
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	0.0360	20
Xylene (p/m)	0.220	0.00200	"	0.200		110	70-130	2.14	20
Xylene (o)	0.108	0.00100	"	0.100		108	70-130	6.00	20
Surrogate: 1,4-Difluorobenzene	0.0574		"	0.0600		95.7	75-125		
Surrogate: 4-Bromofluorobenzene	0.0662		"	0.0600		110	75-125		

Matrix Spike (P5D0703-MS1)

Source: 5D02006-05

Prepared: 04/06/15 Analyzed: 04/07/15

Benzene	1.99	0.0213	mg/kg dry	0.106	0.0300	NR	80-120		QM-05
Toluene	3.66	0.0426	"	0.106	0.446	NR	80-120		QM-05
Ethylbenzene	3.27	0.0213	"	0.106	0.507	NR	80-120		QM-05
Xylene (p/m)	6.54	0.0426	"	0.213	1.84	NR	80-120		QM-05
Xylene (o)	2.82	0.0213	"	0.106	0.546	NR	80-120		QM-05
Surrogate: 4-Bromofluorobenzene	0.0581		"	0.0638		91.0	75-125		
Surrogate: 1,4-Difluorobenzene	0.0513		"	0.0638		80.4	75-125		

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch P5D0705 - General Preparation (GC)

Blank (P5D0705-BLK1)

Prepared & Analyzed: 04/07/15

Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00200	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 4-Bromofluorobenzene	69.7		ug/kg	60.0		116	75-125		
Surrogate: 1,4-Difluorobenzene	56.5		"	60.0		94.2	75-125		

LCS (P5D0705-BS1)

Prepared & Analyzed: 04/07/15

Benzene	0.0811	0.00100	mg/kg wet	0.100		81.1	70-130		
Toluene	0.0991	0.00200	"	0.100		99.1	70-130		
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130		
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130		
Xylene (o)	0.103	0.00100	"	0.100		103	70-130		
Surrogate: 1,4-Difluorobenzene	55.8		ug/kg	60.0		93.0	75-125		
Surrogate: 4-Bromofluorobenzene	57.8		"	60.0		96.4	75-125		

LCS Dup (P5D0705-BSD1)

Prepared & Analyzed: 04/07/15

Benzene	0.0914	0.00100	mg/kg wet	0.100		91.4	70-130	12.0	20
Toluene	0.108	0.00200	"	0.100		108	70-130	8.68	20
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	5.60	20
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130	15.5	20
Xylene (o)	0.118	0.00100	"	0.100		118	70-130	13.1	20
Surrogate: 1,4-Difluorobenzene	55.1		ug/kg	60.0		91.8	75-125		
Surrogate: 4-Bromofluorobenzene	63.0		"	60.0		105	75-125		

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5D0201 - * DEFAULT PREP *****

Blank (P5D0201-BLK1)

Prepared & Analyzed: 04/02/15

% Moisture	ND	0.1	%							
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Duplicate (P5D0201-DUP1)

Source: 5D01004-01

Prepared & Analyzed: 04/02/15

% Moisture	2.0	0.1	%		2.0			0.00	20	
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Duplicate (P5D0201-DUP2)

Source: 5D01005-17

Prepared & Analyzed: 04/02/15

% Moisture	ND	0.1	%		0.0				20	
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Duplicate (P5D0201-DUP3)

Source: 5D01008-14

Prepared & Analyzed: 04/02/15

% Moisture	7.0	0.1	%		7.0			0.00	20	
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Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0603 - TX 1005										
Blank (P5D0603-BLK1)				Prepared & Analyzed: 04/02/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	65.2		"	50.0		130	70-130			
LCS (P5D0603-BS1)				Prepared & Analyzed: 04/02/15						
C6-C12	805	25.0	mg/kg wet	1000		80.5	75-125			
>C12-C28	901	25.0	"	1000		90.1	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130			
LCS Dup (P5D0603-BSD1)				Prepared & Analyzed: 04/02/15						
C6-C12	778	25.0	mg/kg wet	1000		77.8	75-125	3.34	20	
>C12-C28	892	25.0	"	1000		89.2	75-125	0.983	20	
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			
Matrix Spike (P5D0603-MS1)				Source: 5D02011-01	Prepared: 04/02/15 Analyzed: 04/03/15					
C6-C12	845	26.0	mg/kg dry	1040	ND	81.1	75-125			
>C12-C28	1020	26.0	"	1040	132	85.4	75-125			
Surrogate: 1-Chlorooctane	117		"	104		112	70-130			
Surrogate: o-Terphenyl	54.5		"	52.1		105	70-130			
Matrix Spike Dup (P5D0603-MSD1)				Source: 5D02011-01	Prepared: 04/02/15 Analyzed: 04/03/15					
C6-C12	848	26.0	mg/kg dry	1040	ND	81.4	75-125	0.298	20	
>C12-C28	968	26.0	"	1040	132	80.2	75-125	6.26	20	
Surrogate: 1-Chlorooctane	123		"	104		118	70-130			
Surrogate: o-Terphenyl	54.2		"	52.1		104	70-130			

Permian Basin Environmental Lab, L.P.

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

10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

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

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

Batch P5D0609 - TX 1005

Blank (P5D0609-BLK1)

Prepared: 04/01/15 Analyzed: 04/02/15

C6-C12	ND	25.0	mg/kg wet						
>C12-C28	ND	25.0	"						
>C28-C35	ND	25.0	"						
Surrogate: 1-Chlorooctane	94.6		mg/kg	100		94.6	70-130		
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130		

LCS (P5D0609-BS1)

Prepared: 04/01/15 Analyzed: 04/02/15

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125		
>C12-C28	1180	25.0	"	1000		118	75-125		
Surrogate: 1-Chlorooctane	109		mg/kg	100		109	70-130		
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130		

LCS Dup (P5D0609-BSD1)

Prepared: 04/01/15 Analyzed: 04/02/15

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	13.5	20
>C12-C28	1110	25.0	"	1000		111	75-125	6.36	20
Surrogate: 1-Chlorooctane	99.4		mg/kg	100		99.4	70-130		
Surrogate: o-Terphenyl	43.9		"	50.0		87.9	70-130		

Duplicate (P5D0609-DUP1)

Source: 5C27007-04

Prepared: 04/01/15 Analyzed: 04/02/15

C6-C12	ND	26.3	mg/kg dry		ND				20
>C12-C28	ND	26.3	"		18.5				20
Surrogate: 1-Chlorooctane	79.4		mg/kg	100		79.4	70-130		
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	70-130		

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Plains Jal Tank Farm Tank Booster 1287
Project Number: SRS# 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

4/7/2015

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

10014 SCR 1213 Midland, TX 79706 432-686-7235

Project Manager: Curt Stanley

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

Phone: 432-661-4184

Company Name

NOVA Safety and Environmental / TRCSolutions

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No:

432-720-7120

Sampler Signature: [Signature]

Fax No:

e-mail:

cdstanley@trcsolutions.com
cibryant@paap.com

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

PO #:

Project Loc:

Lea County, NM

Project #:

2015-044

Project Name: Plains Jal Tank Farm Tank Booster 1287

Page 1 of 2

ORDER # 5D01608

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	TOTAL:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None		Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8280	RCI	TCLP Benzene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Curt Stanley

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

Phone: 432-661-4184

Company Name: NOVA Safety and Environmental / TRCSolutions

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432-520-7720

Sampler Signature: Curt Stanley

Fax No: _____

e-mail: cdstanley@trcsolutions.com

cidrva@paalp.com

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

PO #: _____

Project Loc: Lea County, NM

Project #: 2015-044

Project Name: Plains Jail Tank Farm Tank Booster 1287

Page 2 of 2

ORDER #: 5D91008

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	TCLP Benzene	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
10	SSW-4 @ 4'			3/31/2015	1445		1	X								Soil	X													
11	Floor-5 @ 4'			3/31/2015	1450		1	X								Soil	X													
12	NSW-5 @ 3.5'			3/31/2015	1455		1	X								Soil	X													
13	SSW-5 @ 3.5'			3/31/2015	1500		1	X								Soil	X													
14	Floor-6 @ 1'			3/31/2015	1505		1	X								Soil	X													

Special Instructions:

Relinquished by: Curt Stanley

Relinquished by: _____

Relinquished by: _____

Date _____ Time _____ Received by: _____

Date _____ Time _____ Received by: _____

Date _____ Time _____ Received by: _____

Date _____ Time _____

Date _____ Time _____

Date _____ Time _____

Laboratory Comments:

Sample Containers Intact? N

VOCs Free of Headspace? N

Labelson Containers? N

Custody seals on containers? N

Sample Hand Delivered by Sampler/Client Rep? N

by Courier? N

Temperature Upon Receipt: 5.0 °C Factor PCR

Analyze For:

TCLP

TOTAL

Metals

Volatiles

Semivolatiles

BTEX

RCI

TCLP Benzene

RUSH TAT

Standard TAT

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Jal Basin Station Booster Pump #1287

Project Number: 2015-044

Location: Lea County, NM

Lab Order Number: 5E18010



NELAP/TCEQ # T104704156-13-3

Report Date: 05/28/15

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	5E18010-01	Soil	05/15/15 13:10	05-18-2015 10:50

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

SP-1

5E18010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P5E2802	05/22/15	05/23/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		135 %	75-125		P5E2802	05/22/15	05/23/15	EPA 8021B	
C6-C12	ND	26.596	mg/kg dry	1	P5E2002	05/18/15	05/20/15	TX 1005	S-GC
>C12-C28	236.51	26.596	mg/kg dry	1	P5E2002	05/18/15	05/20/15	TX 1005	
>C28-C35	45.415	26.596	mg/kg dry	1	P5E2002	05/18/15	05/20/15	TX 1005	
Surrogate: 1-Chlorooctane		112 %	70-130		P5E2002	05/18/15	05/20/15	TX 1005	
Surrogate: o-Terphenyl		139 %	70-130		P5E2002	05/18/15	05/20/15	TX 1005	
Total Hydrocarbon nC6-nC35	281.93	26.596	mg/kg dry	1	[CALC]	05/18/15	05/20/15	[CALC]	S-GC
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	6.0	0.1	%	1	P5E1906	05/19/15	05/19/15	% calculation	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5E2002 - TX 1005										
Blank (P5E2002-BLK1)										
C6-C12										Prepared: 05/18/15 Analyzed: 05/19/15
>C12-C28	ND	25.000	mg/kg wet							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	78.7	25.000	"							
Surrogate: o-Terphenyl	47.9		"	100		78.7	70-130			
				50.0		95.8	70-130			
LCS (P5E2002-BS1)										
C6-C12										Prepared: 05/18/15 Analyzed: 05/19/15
>C12-C28	725	25.000	mg/kg wet	700		104	75-125			
Surrogate: 1-Chlorooctane	842	25.000	"	700		120	75-125			
Surrogate: o-Terphenyl	110		"	100		110	70-130			
	53.7		"	50.0		107	70-130			
LCS Dup (P5E2002-BSD1)										
C6-C12										Prepared: 05/18/15 Analyzed: 05/19/15
>C12-C28	750	25.000	mg/kg wet	700		107	75-125	3.30	20	
Surrogate: 1-Chlorooctane	851	25.000	"	700		122	75-125	1.06	20	
Surrogate: o-Terphenyl	105		"	100		105	70-130			
	48.5		"	50.0		97.0	70-130			
Matrix Spike (P5E2002-MS1)										
C6-C12										Source: 5E18006-01 Prepared: 05/18/15 Analyzed: 05/20/15
>C12-C28	751	25.510	mg/kg dry	714	ND	105	75-125			
Surrogate: 1-Chlorooctane	799	25.510	"	714	ND	112	75-125			
Surrogate: o-Terphenyl	86.5		"	102		84.8	70-130			
	39.0		"	51.0		76.5	70-130			
Matrix Spike Dup (P5E2002-MSD1)										
C6-C12										Source: 5E18006-01 Prepared: 05/18/15 Analyzed: 05/20/15
>C12-C28	653	25.510	mg/kg dry	714	ND	91.4	75-125	14.0	20	
Surrogate: 1-Chlorooctane	734	25.510	"	714	ND	103	75-125	8.47	20	
Surrogate: o-Terphenyl	87.0		"	102		85.3	70-130			
	35.4		"	51.0		69.4	70-130			

S-GC

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5E2802 - TX 1005										
Blank (P5E2802-BLK1)										
Prepared & Analyzed: 05/22/15										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0621		"	0.0500		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.0524		"	0.0500		105	75-125			
LCS (P5E2802-BS1)										
Prepared & Analyzed: 05/22/15										
Benzene	0.0947	0.00100	mg/kg wet	0.100		94.7	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.213	0.00200	"	0.200		106	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0580		"	0.0500		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0663		"	0.0500		133	75-125			
LCS Dup (P5E2802-BS1)										
Prepared & Analyzed: 05/22/15										
Benzene	0.0911	0.00100	mg/kg wet	0.100		91.1	70-130	3.89	20	
Toluene	0.103	0.00200	"	0.100		103	70-130	4.68	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130	0.302	20	
Xylene (p/m)	0.213	0.00200	"	0.200		107	70-130	0.413	20	
Xylene (o)	0.104	0.00100	"	0.100		104	70-130	0.615	20	
Surrogate: 4-Bromofluorobenzene	0.0600		"	0.0500		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.0616		"	0.0500		123	75-125			

S-GC

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703

Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5E1906 - *** DEFAULT PREP ***										
Blank (P5E1906-BLK1)										
% Moisture	ND	0.1	%							Prepared & Analyzed: 05/19/15
Duplicate (P5E1906-DUP1)										
% Moisture	6.0	0.1	%		6.0			0.00	20	Source: 5E18010-01 Prepared & Analyzed: 05/19/15

TRC Solutions- Midland, Texas
2057 Commerce Street
Midland TX, 79703


Project: Jal Basin Station Booster Pump #1287
Project Number: 2015-044
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 5/28/2015

Brent Barron, Laboratory Director/Technical Director

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

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Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #

Project Loc: Lea County, NM

Project Name: Jal Basin Station Booster Pump #1287
Project #: 2015-044

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