



**2019
ANNUAL MONITORING REPORT
AND CLOSURE REQUEST**

LEA STATION LANDFARM
W ½ of the NW ¼ of Section 28, Township 20 South, Range 37 East
Lea County, New Mexico
Plains SRS #: 2004-00061
Discharge Permit #: GW-351

PREPARED FOR:

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) on behalf of Plains Marketing, LP (Plains), is pleased to submit this *2019 Annual Monitoring Report and Closure Request* for the Lea Station Landfarm. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of semi-annual soil monitoring event conducted in calendar year 2019.

Please note, TRC assumed maintenance and reporting responsibilities for the Lea Station Landfarm in October 2016. Data presented in this report prior to October 2016 was collected by the previous environmental contractor, Basin Environmental Service Technologies, LLC (Basin Environmental) of Lovington, New Mexico.

The Lea Station Landfarm (Landfarm, Discharge Permit #GW-351) is operated and maintained in accordance with New Mexico Oil Conservation Division (NMOCD), Natural Resources and Wildlife, Oil and Gas Surface Waste Management Facilities (Title 19, Chapter 15, Part 36). The Landfarm is operated by Plains as a “centralized” facility for Plains use only. A surveyor’s plat of the Landfarm is provided as Figure 1.

2.0 SITE DESCRIPTION & BACKGROUND INFORMATION

The Landfarm is located in the western half of the northwest quarter of Section 28, Township 20 South, Range 37 East, in an area of Lea County, New Mexico, characterized by a stabilized eolian sand dune field. A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicates groundwater in the area should be encountered at approximately forty feet (40’) below ground surface (bgs), along with a general southeast groundwater gradient. Gauging data collected from monitor wells at the adjacent Lea Station indicates the depth to groundwater is approximately thirty feet (30’) bgs.

According to the *Lea Station Discharge Plan*, dated March 2003, “soil borings advanced at Lea Station identified intermittent occurrences of caliche mixed with fine tan sand from the surface to approximately twenty-five feet (25’) bgs, however no pure indurated caliche interbed, as is typical of lithologies of the High Plains Province to the north where the Ogallala Formation is capped by an intergrade of caliche and siliceous sandstone of varying thicknesses. The confining Triassic Red-Beds occur approximately at thirty-five feet (35’) bgs and are overlain by Quaternary Alluvium...”

On November 12, 2003, the NMOCD granted Link Energy Limited Partnership (now Plains) approval under NMOCD Rule 711 to construct and maintain the Landfarm. The Landfarm was approved for nine (9) cells (Cell A through Cell I); however, only eight (8) cells (Cell A through Cell H) were developed. The cells range in area from approximately four (4) to five (5) acres each and are subdivided into four (4) to five (5) grids measuring approximately one (1) acre each.

Receipt of impacted soil commenced in January 2004. As of December 31, 2015, a total of approximately 109,717 cubic yards (yd³) of hydrocarbon-impacted soil from within the Plains crude oil transportation system had been emplaced in Cell A through Cell H. No impacted soil was transported to the landfarm during the 2019 reporting period.

On January 21, 2016, a *Delineation Plan* was submitted to the NMOCD Santa Fe District Office, outlining a plan designed to assess the subsurface soil in each landfarm cell for potential leaching of contaminants of concern from the impacted soils stored therein and to progress the site to an NMOCD-approved closure. Following review of the *Delineation Plan* by an NMOCD representative, a *Revised Delineation Plan* was submitted to the NMOCD on March 30, 2016. Please reference the *Revised Delineation Plan* dated March 30, 2016 for details.

3.0 MAINTENANCE

Mechanical plowing of the soil contained in the treatment zones of Cell A through Cell H occurred every two weeks. Visual inspections of the Landfarm were conducted throughout the reporting period.

4.0 LANDFARM MONITORING RESULTS

4.1 Background Samples & Analyses

A “*Revised Delineation Plan*” (Plan) for the Lea Station Landfarm, dated March 30, 2016 was submitted to the NMOCD. Please reference the Plan for all background sample and historical data.

4.2 Treatment Zone Data Summary

4.2.1. June 27, 2019, Sampling Event

On June 27, 2019, TRC collected three (3) to five (5) five-point composite soil samples from the treatment zone of Cell A through Cell H, with the exceptions of Cell C and Grid 5 of Cell B, whose soil had been removed and transported to a staging area for use as backfill material during the 2009 reporting period. Please refer to *Annual Report (2008) - Disposition of Treated Soils Approval*, dated October 12, 2009, for additional information. The soil samples were submitted to Permian Basin Environmental Laboratories in Midland, Texas, and analyzed for concentrations of TPH and chloride, using EPA methods SW-846 8015M and 300/300.1, respectively.

Laboratory analytical results indicated TPH concentrations were less than the applicable laboratory Reporting Limit (RL) in all soil samples. Chloride concentrations ranged from less than the applicable laboratory RL in soil samples TZ Cell B G-4, TZ Cell D G-4, TZ Cell E G-4, TZ Cell G-2, and TZ Cell G-3 to 12.8 mg/kg in soil sample TZ Cell G-3.

The locations of soil samples collected in treatment Cell A through Cell H during the June 2019 sampling event are depicted on Figure 2, Site Detail and Soil Sample Location Map.

A summary of 2019 Concentrations of TPH & Chloride in the Treatment Zone and a summary 2018 - 2019 Concentrations of TPH & Chloride in the Treatment Zone are provided as Table 1 and 2, respectively. The 2019 analytical laboratory reports are provided in Appendix B.

The laboratory analytical results from the June 25, 2018, December 17, 2018, and June 27, 2019 treatment zone sampling events indicated all of the active landfarm treatment cells exhibited TPH (500 mg/kg) and chloride (250 mg/kg) concentrations below the NMOCD remediation standards.

4.3 Total Metals, Anions, and Cations in the Vadose Zone

4.3.1. June 22-23, 2016, Sampling Event

On January 21, 2016, a *Delineation Plan* was submitted to the NMOCD Santa Fe District Office, outlining a plan designed to assess the subsurface soil in each landfarm cell for potential leaching of contaminants of concern from the impacted soils stored therein and to progress the site to an NMOCD-approved closure. Following review of the *Delineation Plan* by an NMOCD representative, a *Revised Delineation Plan* was submitted to the NMOCD on March 30, 2016.

On June 22-23, 2016, Basin Environmental submitted four (4) randomly selected grab soil samples from the vadose zones of Cells A through H to be analyzed for concentrations of the metals and major anions/cations listed in Section A of 20.6.2.3103 NMAC, “Human Health Standards”, which included total arsenic, total barium, total cadmium, total chromium, total copper, total iron, total lead, total manganese, total selenium, total silver, and total zinc by EPA Method 6020A, mercury by EPA Method SW-846 7471A, and chloride, fluoride, nitrate, and sulfate by EPA Method 300.1. The soil samples were collected at depths of approximately seven (7) feet and approximately ten (10) feet bgs. Contaminant concentrations were compared to the background concentrations detected in the soil samples previously collected. Please reference Table 3, “2013 - 2016 Concentrations of Metals, Ions and Cations in the Vadose Zone” for additional information.

4.3.2. December 18, 2017, Background Sampling Event

On December 18, 2017, TRC collected background soil samples (Cell “I” @ 6-7’ and Cell “I” 9-10’) from Cell “I” located in the southeast corner of the Lea Station Landfarm. Please reference Figure 2 for the sample location. Utilizing a backhoe soil samples were collected at approximately 6-7 feet bgs and approximately 9-10 feet bgs. The soil samples were submitted to the laboratory and analyzed for concentrations of total arsenic, total barium, total chromium, total copper, total iron, total lead, total manganese, total selenium, and total zinc by EPA Method SW-6010B and total mercury by EPA Method SW-7471A and concentrations of fluoride, nitrate, chloride, and sulfate by EPA Method 300.1. Please reference Table 4, “2017 Background Concentrations of Total Metals, Anions and Cations in the Vadose Zone of Cell “I” for additional information.

In addition, soil samples Cell “I” @ 6-7’ and Cell “I” 9-10’ were analyzed for concentrations of Toxic Characteristic Leaching Procedure (TCLP) concentrations of arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, and zinc. Please reference Table 5, “2017 Background Concentrations of TCLP Metals in the Vadose Zone of Cell “I” for additional information.

4.3.3. 2016 – Contaminants of Concern in the Vadose Zone

Arsenic

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-3, VZ Cell D G-5, and VZ Cell C G-3 were submitted to the laboratory for determination of concentrations of total arsenic. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total arsenic concentrations ranging from less than the applicable laboratory Reporting Limit (RL) for soil samples VZ Cell B G-5 and VZ Cell C G-3 to 5.11 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total arsenic concentrations ranging from 3.08 mg/kg for soil sample VZ Cell C G-3 to 12.5 mg/kg for soil sample VZ Cell B G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total arsenic concentrations of less than 0.980 mg/kg and 6.16 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP arsenic concentrations less than the applicable laboratory RL, respectively.

Barium

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, and VZ Cell E G-3 were submitted to the laboratory for determination of concentrations of total barium. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total barium concentrations ranging from 9.30 mg/kg for soil sample VZ Cell C G-3 to 124 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total barium concentrations ranging from 22.2 mg/kg for soil sample VZ Cell C G-2 to 70.3 mg/kg for soil sample VZ Cell B G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total barium concentrations of 73.2 mg/kg and 15.1 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP barium concentrations of 1.24 mg/L and 0.542 mg/L, respectively.

Chromium

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, VZ Cell E G-3, VZ Cell F G-5, and VZ Cell G G-5 were submitted to the laboratory for determination of concentrations of total chromium. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total chromium concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell B G-5 and VZ Cell C G-3 to 11.8 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total chromium concentrations

ranging from 1.79 mg/kg for soil sample VZ Cell C G-2 to 9.17 mg/kg for soil sample VZ Cell D G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total chromium concentrations of less than the laboratory RL of 0.980 mg/kg and 5.69 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP chromium concentrations less than the applicable laboratory RL.

Copper

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell A G-1, VZ Cell A G-2, VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-1, VZ Cell D G-5, VZ Cell F G-5, VZ Cell G G-5, and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of total copper. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total copper concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell A G-1, VZ Cell A G-2, VZ Cell B G-5, VZ Cell C G-3, VZ Cell D G-1, VZ Cell F G-5, and VZ Cell H G-3 to 5.18 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total copper concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell A G-2, VZ Cell C G-2, VZ Cell D G-1, and VZ Cell F G-5 to 4.07 mg/kg for soil sample VZ Cell B G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total copper concentrations of less than the laboratory RL of 1.96 mg/kg and 1.89 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP copper concentrations less than the applicable laboratory RL.

Iron

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, and VZ Cell G G-5 were submitted to the laboratory for determination of concentrations of total iron. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total iron concentrations ranging from 573 mg/kg for soil sample VZ Cell B G-5 to 10,100 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total iron concentrations ranging from 1,540 mg/kg for soil sample VZ Cell C G-2 to 9,050 mg/kg for soil sample VZ Cell D G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total iron concentrations of 4,540 mg/kg and 5,730 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP iron concentrations of less than the applicable laboratory RL of 1.00 mg/L and 0.184 mg/L, respectively.

Lead

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell C G-2 and VZ Cell G G-5 were submitted to the laboratory for determination of concentrations of total lead. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total lead concentrations ranging from 1.63 mg/kg for soil sample VZ Cell C G-2 to 4.17 mg/kg for soil sample VZ Cell G G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total lead concentrations ranging from less than the laboratory RL of 0.938 mg/kg for soil sample VZ Cell C G-2 to 2.86 mg/kg for soil sample VZ Cell G G-5.

On December 18, 2017, background soil samples Cell "I" @ 6-7' and Cell "I" @ 9-10' exhibited total lead concentrations of less than the laboratory RL of 0.980 mg/kg and 2.40 mg/kg, respectively. Background soil samples Cell "I" @ 6-7' and Cell "I" @ 9-10' exhibited TCLP lead concentrations of less than the applicable laboratory RL of 0.0500 mg/L and less than the laboratory RL of 0.00916 mg/L, respectively.

Manganese

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, VZ Cell E G-3, VZ Cell F G-5 and VZ Cell G G-5 were submitted to the laboratory for determination of concentrations of total manganese. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total manganese concentrations ranging from 5.55 mg/kg for soil sample VZ Cell B G-5 to 118 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total manganese concentrations ranging from 18.1 mg/kg for soil sample VZ Cell C G-2 to 84.1 mg/kg for soil sample VZ Cell G G-5.

On December 18, 2017, background soil samples Cell "I" @ 6-7' and Cell "I" @ 9-10' exhibited total manganese concentrations of 61.2 mg/kg and 27.3 mg/kg, respectively. Background soil samples Cell "I" @ 6-7' and Cell "I" @ 9-10' exhibited TCLP manganese concentrations of 0.121 mg/L and less than the laboratory RL of 0.00292 mg/L, respectively.

Zinc

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, and VZ Cell E G-3 were submitted to the laboratory for determination of concentrations of total zinc. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited total zinc concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell B G-5 and VZ Cell C G-3 to 23.6 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited total zinc concentrations ranging from 3.31 mg/kg for soil sample VZ Cell C G-2 to 19.0 mg/kg for soil sample VZ Cell E G-3.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total zinc concentrations of 10.3 mg/kg and 11.7 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP zinc concentrations of 0.358 mg/L and 0.327 mg/L, respectively.

Mercury

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell A G-1, VZ Cell A G-2, VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-1, VZ Cell D G-5, VZ Cell E G-3, VZ Cell F G-5, VZ Cell G G-5, and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of total mercury. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs exhibited total mercury concentrations less than the applicable laboratory RL for all soil samples.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited total mercury concentrations of 0.00410 mg/kg and less than the laboratory RL of 0.0179 mg/kg, respectively. Background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited TCLP mercury concentrations of less than the laboratory RL of 0.000200 mg/L and less than the laboratory RL of 0.000100 mg/L, respectively.

Chloride

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-1, VZ Cell F G-5, and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of chloride. The analytical results indicated all of the soil samples collected at approximately seven (7) feet bgs exhibited chloride concentrations less than the applicable laboratory RL. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited chloride concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-5, and VZ Cell H G-3 to 25.1 mg/kg for soil sample VZ Cell B G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited chloride concentrations of 3.73 mg/kg and 8.63 mg/kg, respectively.

Fluoride

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell A G-1, VZ Cell D G-5, VZ Cell F G-5, and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of fluoride. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited fluoride concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell A G-1, VZ Cell F G-5 and VZ Cell H G-3 to 8.12 mg/kg for soil sample VZ Cell D G-5. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited fluoride concentrations ranging from less than the laboratory RL of 5.68 mg/kg for soil sample VZ Cell F G-5 to 33.2 mg/kg for soil sample VZ Cell A G-1.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited fluoride concentrations of 7.82 mg/kg and 8.05 mg/kg, respectively.

Nitrate

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell A G-1, VZ Cell C G-2, VZ Cell E G-3, VZ Cell F G-5, VZ Cell G G-5, and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of nitrate. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited nitrate concentrations ranging from 1.26 mg/kg for soil sample VZ Cell H G-3 to 9.15 mg/kg for soil sample VZ Cell C G-2. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited nitrate concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell F G-5 and VZ Cell H G-3 to 7.39 mg/kg for soil sample VZ Cell A G-1.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited nitrate concentrations of 2.59 mg/kg and 3.67 mg/kg, respectively.

Sulfate

On June 22-23, 2016, soil samples collected at approximately seven (7) feet bgs and approximately ten (10) feet bgs from VZ Cell A G-2, VZ Cell B G-5, VZ Cell C G-2, VZ Cell C G-3, VZ Cell D G-1, VZ Cell D G-5, VZ Cell E G-3 and VZ Cell H G-3 were submitted to the laboratory for determination of concentrations of sulfate. The analytical results indicated the soil samples collected at approximately seven (7) feet bgs exhibited sulfate concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell B G-5, VZ Cell D G-1, VZ Cell D G-5, and VZ Cell H G-3 to 50.9 mg/kg for soil sample VZ Cell C G-2. The analytical results indicated the soil samples collected at approximately ten (10) feet bgs exhibited sulfate concentrations ranging from less than the applicable laboratory RL for soil samples VZ Cell A G-2, VZ Cell D G-1, VZ Cell D G-5, and VZ Cell H G-3 to 569 mg/kg for soil sample VZ Cell B G-5.

On December 18, 2017, background soil samples Cell “I” @ 6-7’ and Cell “I” @ 9-10’ exhibited sulfate concentrations of 14.6 mg/kg and 119 mg/kg, respectively.

5.0 CONCLUSIONS

The laboratory analytical results from the June 25, 2018, December 17, 2018, and June 27, 2019 treatment zone sampling events indicated all of the active landfarm treatment cells exhibited TPH (500 mg/kg) and chloride (250 mg/kg) concentrations below the NMOCD remediation standards.

Comparison of the analytical results from the July 22-23, 2016 sampling event and the December 18, 2017 Cell “I” background sampling event for total metals, anions, and cations indicated background concentrations were generally comparable to the concentrations exhibited within the landfarm cells. Historical background sample analytical results indicate total metal concentrations appear to fluctuate widely over short distances and depths across the Plains Lea

Station landfarm and within private and commercial land farms operated in southeast New Mexico.

Background soil samples Cell “I” @ 6-7’ and 9-10’ were analyzed for concentrations of total metals (Table 4) and metals by Toxicity Characteristic Leaching Procedure. The analytical results indicated TCLP metal concentrations were less than the Standards for Groundwater of 10,000 mg/L TDS Concentration or Less (NMAC 20.6.2.3103), with the exception of the barium concentration (1.24 mg/L) at approximately 6-7 feet bgs.

6.0 ANTICIPATED ACTIONS

In March 2017, the NMOCD approved the cessation of vadose zone soil sampling.

The laboratory analytical results from the June 25, 2018, December 17, 2018, and June 27, 2019 treatment zone sampling events indicated all of the active landfarm treatment cells exhibited TPH (500 mg/kg) and chloride (250 mg/kg) concentrations below the NMOCD remediation standards.

Based on the analytical results, Plains will cease the bi-monthly plowing of the landfarm cells and bi-annual treatment cell sampling events.

Plains respectfully requests NMOCD approval to commence closure activities.

7.0 LIMITATIONS

TRC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on Basin and on oral statements made by certain individuals and information generated by EPI. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes 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. 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 and/or Plains.

8.0 DISTRIBUTION

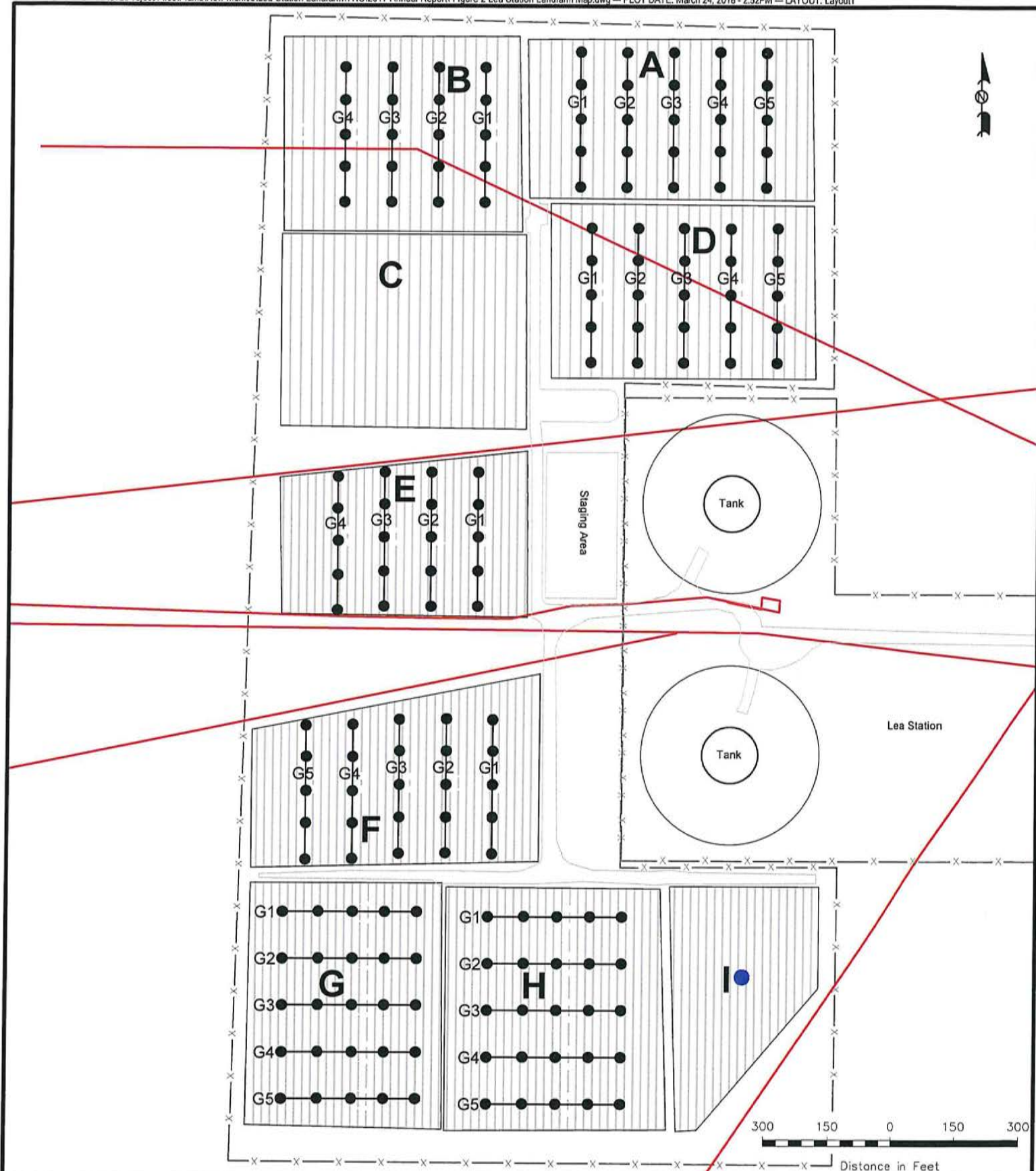
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Figures



Survey Date: 12/04/03	Sheet 1 of 1 Sheets
W.O. Number: 03.11.1325	DRAWN BY: A.W.B
Date: 12/05/03	DISK: 10
LOTS & LAND	Scale: 1"=500'

Figure 1: Lea Station Landfarm Survey Map



LEGEND:

- Road
- Pipeline
- Fence
- Treatment Zone Composite Sample
- Landfarm Cell
- Cell "I" Background Sample

Figure 2
 Site Detail &
 Soil Sample Location Map
 Plains Marketing, L.P.
 Lea Station Landfarm
 Lea County, NM

Scale: 1" = 300'

CAD By: CS	Checked By: CS
Draft: March 23, 2018	
Lat. N 32.547666°, Long. W 103.263265°	
W1/2 NW1/4 Sec 28 T20S R37E	
TRC Proj. No.: 265415	

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Tables

TABLE 1
2019 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	E 300
				GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell A G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.30
TZ Cell A G-2	0.5'	6/27/2019	In-Situ	<26.9	<26.9	<26.9	<26.9	4.43
TZ Cell A G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	7.09
TZ Cell A G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	7.81
TZ Cell A G-5	0.5'	6/27/2019	In-Situ	<25.0	<25.0	<25.0	<25.0	1.01
TZ Cell B G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.37
TZ Cell B G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.30
TZ Cell B G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.87
TZ Cell B G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.80
TZ Cell D G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	6.20
TZ Cell D G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	12.8
TZ Cell D G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-5	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	1.17
TZ Cell E G-1	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.57
TZ Cell E G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.57
TZ Cell E G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.54
TZ Cell E G-4	0.5'	6/27/2019	In-Situ	<26.0	<26.0	<26.0	<26.0	<1.04
TZ Cell F G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.87
TZ Cell F G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.34
TZ Cell F G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.78
TZ Cell F G-4	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.61
TZ Cell F G-5	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.36
TZ Cell G G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.21
TZ Cell G G-2	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell G G-3	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell G G-4	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.36
TZ Cell G G-5	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.04
TZ Cell H G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	8.90
TZ Cell H G-2	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	7.95
TZ Cell H G-3	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.14
TZ Cell H G-4	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	1.77
TZ Cell H G-5	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.26

TABLE 2
2018 - 2019 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	E 300
				GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell A G-1	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell A G-2	0.5'	6/25/2018	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell A G-3	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell A G-4	0.5'	6/25/2018	In-Situ	<25.5	<25.5	<25.5	<25.5	<1.02
TZ Cell A G-5	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell B G-1	0.5'	6/25/2018	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell B G-2	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell B G-3	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell B G-4	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-1	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-2	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-3	0.5'	6/25/2018	In-Situ	<25.3	30.0	<25.3	30.0	<1.00
TZ Cell D G-4	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-5	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell E G-1	0.5'	6/25/2018	In-Situ	<25.5	271	158	429	<1.02
TZ Cell E G-2	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell E G-3	0.5'	6/25/2018	In-Situ	<25.0	<25.0	<25.0	<25.0	<1.00
TZ Cell E G-4	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell F G-1	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell F G-2	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell F G-3	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell F G-4	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell F G-5	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell G G-1	0.5'	6/25/2018	In-Situ	<25.0	47.8	<25.3	47.8	<1.00
TZ Cell G G-2	0.5'	6/25/2018	In-Situ	<25.3	221	53.5	274.5	<1.01
TZ Cell G G-3	0.5'	6/25/2018	In-Situ	<25.0	148	24.8	172.8	<1.00
TZ Cell G G-4	0.5'	6/25/2018	In-Situ	<25.0	218	56.3	274.3	<1.00
TZ Cell G G-5	0.5'	6/25/2018	In-Situ	<25.0	38.8	<25.0	38.8	<1.00
TZ Cell H G-1	0.5'	6/25/2018	In-Situ	<25.3	69.6	26.5	96.1	<1.01
TZ Cell H G-2	0.5'	6/25/2018	In-Situ	<25.5	53.4	<25.5	53.4	<1.02
TZ Cell H G-3	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell H G-4	0.5'	6/25/2018	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell H G-5	0.5'	6/25/2018	In-Situ	<25.0	<25.0	<25.0	<25.0	<1.00
TZ Cell A G-1	0.5'	12/17/2018	In-Situ	<27.2	<27.2	<27.2	<27.2	<1.09
TZ Cell A G-2	0.5'	12/17/2018	In-Situ	<26.9	110	49.3	159.3	<1.08
TZ Cell A G-3	0.5'	12/17/2018	In-Situ	<27.2	77.5	<27.2	77.5	<1.09
TZ Cell A G-4	0.5'	12/17/2018	In-Situ	<26.6	75.2	41.3	116.5	<1.06
TZ Cell A G-5	0.5'	12/17/2018	In-Situ	<26.6	34.0	<26.6	34.0	<1.06
TZ Cell B G-1	0.5'	12/17/2018	In-Situ	27.2	43.1	<27.2	43.1	<1.09
TZ Cell B G-2	0.5'	12/17/2018	In-Situ	<27.2	73.3	<27.2	73.3	<1.09
TZ Cell B G-3	0.5'	12/17/2018	In-Situ	<26.6	67.0	31.0	98.0	1.15

TABLE 2
2018 - 2019 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	E 300
				GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell B G-4	0.5'	12/17/2018	In-Situ	<26.6	<26.6	<26.6	<26.6	<1.06
TZ Cell D G-1	0.5'	12/17/2018	In-Situ	<26.6	36.6	<26.6	36.6	<1.06
TZ Cell D G-2	0.5'	12/17/2018	In-Situ	<26.6	<26.6	<26.6	<26.6	<1.06
TZ Cell D G-3	0.5'	12/17/2018	In-Situ	<26.9	52.7	<26.9	52.7	1.37
TZ Cell D G-4	0.5'	12/17/2018	In-Situ	<26.6	<26.6	<26.6	<26.6	<1.06
TZ Cell D G-5	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell E G-1	0.5'	12/17/2018	In-Situ	<26.0	<26.0	<26.0	<26.0	<1.04
TZ Cell E G-2	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell E G-3	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell E G-4	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell F G-1	0.5'	12/17/2018	In-Situ	<27.2	<27.2	<27.2	<27.2	<1.09
TZ Cell F G-2	0.5'	12/17/2018	In-Situ	<26.9	58.4	33.7	92.1	<1.08
TZ Cell F G-3	0.5'	12/17/2018	In-Situ	<27.2	56.0	33.3	89.3	<1.09
TZ Cell F G-4	0.5'	12/17/2018	In-Situ	<26.6	<26.6	<26.6	<26.6	<1.06
TZ Cell F G-5	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell G G-1	0.5'	12/17/2018	In-Situ	<27.2	<27.2	<27.2	<27.2	<1.09
TZ Cell G G-2	0.5'	12/17/2018	In-Situ	<26.9	80.3	<26.9	80.3	<1.08
TZ Cell G G-3	0.5'	12/17/2018	In-Situ	<26.0	60.4	<26.0	60.4	<1.04
TZ Cell G G-4	0.5'	12/17/2018	In-Situ	<26.6	88.5	42.2	130.7	<1.06
TZ Cell G G-5	0.5'	12/17/2018	In-Situ	<26.0	<26.0	<26.0	<26.0	<1.04
TZ Cell H G-1	0.5'	12/17/2018	In-Situ	<26.9	100	60.4	160.4	<1.08
TZ Cell H G-2	0.5'	12/17/2018	In-Situ	<26.9	125	63.1	188.1	10.2
TZ Cell H G-3	0.5'	12/17/2018	In-Situ	<26.9	81.4	45.7	127.1	<1.08
TZ Cell H G-4	0.5'	12/17/2018	In-Situ	<26.3	<26.3	<26.3	<26.3	<1.05
TZ Cell H G-5	0.5'	12/17/2018	In-Situ	<26.0	<26.0	<26.0	<26.0	<1.04
TZ Cell A G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.3
TZ Cell A G-2	0.5'	6/27/2019	In-Situ	<26.9	<26.9	<26.9	<26.9	4.43
TZ Cell A G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	7.09
TZ Cell A G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	7.81
TZ Cell A G-5	0.5'	6/27/2019	In-Situ	<25.0	<25.0	<25.0	<25.0	1.01
TZ Cell B G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.37
TZ Cell B G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.3
TZ Cell B G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.87
TZ Cell B G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.8
TZ Cell D G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	6.2
TZ Cell D G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	12.8
TZ Cell D G-4	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
TZ Cell D G-5	0.5'	6/27/2019	In-Situ	<25.3	<25.3	<25.3	<25.3	1.17
TZ Cell E G-1	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.57

TABLE 2
2018 - 2019 CONCENTRATIONS OF TPH & CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	E 300
				GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		CHLORIDE (mg/Kg)
TZ Cell E G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.57
TZ Cell E G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.54
TZ Cell E G-4	0.5'	6/27/2019	In-Situ	<26.0	<26.0	<26.0	<26.0	<1.04
TZ Cell F G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.87
TZ Cell F G-2	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	3.34
TZ Cell F G-3	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.78
TZ Cell F G-4	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.61
TZ Cell F G-5	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	2.36
TZ Cell G G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.21
TZ Cell G G-2	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell G G-3	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	<1.03
TZ Cell G G-4	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.36
TZ Cell G G-5	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.04
TZ Cell H G-1	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	8.9
TZ Cell H G-2	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	7.95
TZ Cell H G-3	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	2.14
TZ Cell H G-4	0.5'	6/27/2019	In-Situ	<25.8	<25.8	<25.8	<25.8	1.77
TZ Cell H G-5	0.5'	6/27/2019	In-Situ	<25.5	<25.5	<25.5	<25.5	1.26

TABLE 3

2013 -2016 CONCENTRATIONS OF TOTAL METALS , ANIONS AND CATIONS IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 6020A											SW-846 7471A	EPA Method 300/300.1			
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Mercury (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)
VZ Cell A G-1	3' - 4'	11/13/2013	In-Situ	<2.00	17.6	<1.00	1.59	<2.00	1,070	<2.00	13.7	<3.00	<2.00	3.50	<0.0089	3.64	<5.09	2.1	-
VZ Cell A G-1	7'	6/22/2016	In-Situ	-	-	-	-	<1.97	-	-	-	-	-	-	<0.0238	-	<5.09	2.10	-
VZ Cell A G-1	10'	6/22/2016	In-Situ	-	-	-	-	3.61	-	-	-	-	-	-	<0.0266	-	33.2	7.39	-
VZ Cell A G-2	3' - 4'	11/13/2013	In-Situ	<1.89	21.9	<0.94	2.00	<1.89	1,520	<1.89	25.5	<2.83	<1.89	4.05	<0.0083	3.78	3.87	2.71	15.8
VZ Cell A G-2	7'	6/22/2016	In-Situ	-	-	-	-	<1.94	-	-	-	-	-	-	<0.0252	-	-	-	16.4
VZ Cell A G-2	10'	6/22/2016	In-Situ	-	-	-	-	<2.07	-	-	-	-	-	-	<0.0249	-	-	-	<10.2
VZ Cell A G-3	3' - 4'	11/13/2013	In-Situ	<1.89	15.4	<0.94	1.35	<1.89	860	<1.89	6.95	<2.83	<1.89	<2.83	<0.0091	3.70	2.75	3.22	4.99
VZ Cell A G-4	3' - 4'	11/13/2013	In-Situ	<2.00	18.1	<1.00	1.20	<2.00	731	<2.00	7.53	<3.00	<2.00	<3.00	<0.0100	3.98	3.85	1.34	4.99
VZ Cell B G-1	3' - 4'	11/13/2013	In-Situ	<2.00	34.1	<1.00	1.77	<2.00	1,290	<2.00	17.7	<3.00	<2.00	3.31	<0.0089	18.3	1.22	11.2	10.5
VZ Cell B G-3	3' - 4'	11/13/2013	In-Situ	<1.96	13.8	<0.98	<0.98	<1.96	582	<1.96	8.22	<2.94	<1.96	<2.94	<0.0094	3.84	2.49	1.75	5.20
VZ Cell B G-4	3' - 4'	11/13/2013	In-Situ	<2.00	74.1	<1.00	3.20	<2.00	2,460	<2.00	39.9	<3.00	<2.00	7.05	<0.0091	11.3	3.56	15.9	51.9
VZ Cell B G-5	3' - 4'	11/13/2013	In-Situ	8.00	76.7	<1.00	3.66	2.91	2,800	<2.00	50.2	<3.00	<2.00	7.57	<0.0100	4.53	4.87	0.928	48.4
VZ Cell B G-5	7'	6/22/2016	In-Situ	<0.973	11.8	-	<0.973	<1.95	724	-	5.55	-	-	<2.92	<0.0243	<5.01	-	-	<10.0
VZ Cell B G-5	10'	6/22/2016	In-Situ	12.5	70.3	-	8.72	4.07	7,810	-	63.2	-	-	18.0	<0.0276	25.1	-	-	569
VZ Cell C G-1	3' - 4'	11/13/2013	In-Situ	3.14	82.2	<0.93	4.11	3.29	3,180	<1.85	47.0	<2.78	<1.85	8.93	<0.0100	3.58	2.97	3.36	82.1
VZ Cell C G-2	3' - 4'	11/13/2013	In-Situ	<2.00	98.9	<1.00	5.87	3.01	4,710	2.56	53.0	<3.00	<2.00	13.9	<0.0100	6.72	2.12	<1.60	113
VZ Cell C G-2	7'	6/22/2016	In-Situ	-	55.5	-	3.65	2.52	3,810	1.63	52.7	-	-	8.38	<0.0260	<11.2	-	9.15	50.9
VZ Cell C G-2	10'	6/22/2016	In-Situ	-	22.2	-	1.79	<1.88	1,540	<0.938	18.1	-	-	3.31	<0.0243	<10.2	-	1.45	56.25
VZ Cell C G-3	3' - 4'	11/13/2013	In-Situ	5.94	141	<0.89	3.55	2.59	2,680	<1.79	55.7	<2.68	<1.79	8.74	<0.0100	7.21	3.62	1.96	100
VZ Cell C G-3	7'	6/22/2016	In-Situ	<1.03	9.30	-	<1.03	<2.06	573	-	8.85	-	-	<3.09	<0.0226	<10.2	-	-	10.2
VZ Cell C G-3	10'	6/22/2016	In-Situ	3.08	54.6	-	3.67	1.97	3,260	-	44.2	-	-	8.34	<0.0240	<10.4	-	-	49.6
VZ Cell C G-5	3' - 4'	11/13/2013	In-Situ	<2.00	67.2	<1.00	2.16	<2.00	1,600	<2.00	24.6	<3.00	<2.00	4.69	<0.0085	<2.17	3.87	3.77	37.9
VZ Cell D G-1	3' - 4'	11/13/2013	In-Situ	<1.96	47.4	<0.98	2.36	<1.96	1,550	<1.96	20.6	<2.94	<1.96	4.34	<0.0098	30.7	3.52	3.27	18.9
VZ Cell D G-1	7'	6/22/2016	In-Situ	-	-	-	-	<1.75	-	-	-	-	-	-	<0.0226	<10.2	-	1.27	<10.2
VZ Cell D G-1	10'	6/22/2016	In-Situ	-	-	-	-	<2.08	-	-	-	-	-	-	<0.0260	<10.7	-	1.95	<10.7
VZ Cell D G-2	3' - 4'	11/13/2013	In-Situ	<1.82	27.5	<0.91	2.68	<1.82	2,110	<1.82	31.4	<2.73	<1.82	6.43	<0.0093	10.3	1.54	5.00	4.63
VZ Cell D G-4	3' - 4'	11/13/2013	In-Situ	<1.89	39.3	<0.94	2.17	<1.89	1,510	<1.89	18.4	<2.83	<1.89	3.78	<0.0098	3.29	1.51	<0.80	8.72
VZ Cell D G-5	3' - 4'	11/13/2013	In-Situ	3.88	86.7	<0.98	3.46	<1.96	2,300	<1.96	34.3	<2.94	<1.96	6.58	<0.0098	3.45	4.31	1.98	17.9
VZ Cell D G-5	7'	6/22/2016	In-Situ	5.11	124	-	11.8	5.18	10,100	-	118	-	-	23.6	<0.0384	-	8.12	-	<16.2
VZ Cell D G-5	10'	6/22/2016	In-Situ	6.76	42.6	-	9.17	3.10	9,050	-	56.8	-	-	18.8	<0.0274	-	9.13	-	<12.7
VZ Cell E G-1	3' - 4'	11/13/2013	In-Situ	<1.96	46.5	<0.98	3.33	<1.96	2,500	<1.96	58.7	<2.94	<1.96	6.37	<0.0089	<2.26	3.15	<0.80	8.87

TABLE 3

2013 -2016 CONCENTRATIONS OF TOTAL METALS , ANIONS AND CATIONS IN THE VADOSE ZONE

PLAINS MARKETING, LP
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2004-00061
DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 6020A											SW-846 7471A	EPA Method 300/300.1			
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Mercury (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)
VZ Cell E G-2	3' - 4'	11/13/2013	In-Situ	<1.85	18.1	<0.93	1.49	<1.85	998	<1.85	17.0	<2.78	<1.85	2.93	<0.0091	3.01	2.06	4.44	28.8
VZ Cell E G-3	3' - 4'	11/13/2013	In-Situ	3.95	98.0	<0.96	2.91	1.96	2,050	<1.92	46.9	<2.88	1.93	7.09	<0.0094	3.58	3.29	12.1	52.3
VZ Cell E G-3	7'	6/23/2016	In-Situ	1.13	15.0	-	4.38	-	-	-	50.4	-	-	10.8	<0.0286	-	-	5.85	18.2
VZ Cell E G-3	10'	6/23/2016	In-Situ	3.40	30.6	-	7.64	-	-	-	74.9	-	-	19.0	<0.0289	-	-	6.34	21.3
VZ Cell E G-4	3' - 4'	11/13/2013	In-Situ	4.19	110	<0.96	4.65	<1.92	3,240	2.39	55.0	<2.88	<1.92	10.2	<0.0094	3.73	4.35	10.2	18.8
VZ Cell F G-2	3' - 4'	11/13/2013	In-Situ	<1.89	14.8	<0.94	0.998	<1.89	664	<1.89	10.0	<2.83	<1.89	<2.83	<0.0083	2.99	0.97	<0.08	<4.00
VZ Cell F G-3	3' - 4'	11/13/2013	In-Situ	3.23	85.0	<0.91	2.81	<1.82	1,940	<1.82	45.7	<2.73	<1.82	6.71	<0.0096	17.4	3.54	2.08	54.9
VZ Cell F G-4	3' - 4'	11/13/2013	In-Situ	<1.96	43.5	<0.98	2.12	<1.96	1,470	<1.96	26.3	<2.94	<1.96	3.95	<0.0098	15.3	1.49	2.90	9.10
VZ Cell F G-5	3' - 4'	11/13/2013	In-Situ	<1.82	8.41	<0.91	2.45	<1.82	2,150	<1.82	15.5	<2.73	<1.82	5.55	<0.0089	6.99	<0.80	<0.80	6.50
VZ Cell F G-5	7'	6/23/2016	In-Situ	-	-	-	3.12	<2.01	-	-	19.4	-	-	-	<0.0238	<10.5	<5.27	3.05	-
VZ Cell F G-5	10'	6/23/2016	In-Situ	-	-	-	4.63	<2.24	-	-	29.8	-	-	-	<0.0251	12.9	<5.68	<1.14	-
VZ Cell G G-1	3' - 4'	11/13/2013	In-Situ	<1.96	5.10	<0.98	1.70	<1.96	1,370	<1.96	19.5	<2.94	<1.96	<2.94	<0.0094	6.59	<0.80	1.85	6.35
VZ Cell G G-2	3' - 4'	11/13/2013	In-Situ	<1.96	6.29	<0.98	1.70	<1.96	1,260	<1.96	18.1	<2.94	<1.96	<2.94	<0.0098	2.98	<0.80	1.73	<4.00
VZ Cell G G-4	3' - 4'	11/13/2013	In-Situ	<1.89	6.62	<0.94	1.87	<1.89	1,410	<1.89	13.7	<2.83	<1.89	<2.83	<0.0086	6.03	<0.80	9.01	8.26
VZ Cell G G-5	3' - 4'	11/13/2013	In-Situ	<2.00	22.9	<1.00	8.77	<2.00	8,640	3.80	39.9	<3.00	<2.00	19.0	<0.0094	3.24	1.46	2.97	10.7
VZ Cell G G-5	7'	6/23/2016	In-Situ	-	-	-	8.85	2.29	8,120	4.17	40.9	-	-	-	<0.0278	-	-	1.61	-
VZ Cell G G-5	10'	6/23/2016	In-Situ	-	-	-	4.50	2.93	4,260	2.86	84.1	-	-	-	<0.0293	-	-	5.01	-
VZ Cell H G-2	3' - 4'	11/13/2013	In-Situ	<2.00	9.65	<1.00	2.06	<2.00	1,680	<2.00	23.9	<3.00	<2.00	4.04	<0.0100	15.9	<0.80	2.5	16.5
VZ Cell H G-3	3' - 4'	11/13/2013	In-Situ	<2.00	10.1	<1.00	2.11	<2.00	1,740	<2.00	22.2	<3.00	<2.00	4.49	<0.0100	4.89	<0.80	<0.80	<4.00
VZ Cell H G-3	7'	6/23/2016	In-Situ	-	-	-	-	<2.26	-	-	-	-	-	-	<0.0267	<11.3	<5.65	1.26	<11.3
VZ Cell H G-3	10'	6/23/2016	In-Situ	-	-	-	-	2.20	-	-	-	-	-	-	<0.0250	<11.1	6.34	<1.11	<11.1
VZ Cell H G-4	3' - 4'	11/13/2013	In-Situ	<1.75	11.2	<0.88	2.45	<1.75	2,150	<1.75	22.9	<2.63	<1.75	5.13	0.0240	2.81	0.988	<0.80	<4.00
VZ Cell H G-5	3' - 4'	11/13/2013	In-Situ	<1.85	9.12	<0.93	2.11	<1.85	1,800	<1.85	21.5	<2.78	<1.85	4.19	<0.0091	3.07	0.998	1.83	5.79

TABLE 4

2017 BACKGROUND CONCENTRATIONS OF TOTAL METALS, ANIONS AND CATIONS IN THE VADOSE ZONE OF CELL "I"

PLAINS MARKETING, LP
 LEA STATION LANDFARM
 LEA COUNTY, NEW MEXICO
 PLAINS SRS #: 2004-00061
 DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 6020A											SW-846 7471A	EPA Method 300/300.1			
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Mercury (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)
Cell "I" @ 6-7'	6' - 7'	12/18/2017	-	<0.980	73.2	-	<0.980	<1.96	4540	<0.980	61.2	<2.94	-	10.3	0.00410	3.73	7.82	2.59	14.6
Cell "I" @ 9-10'	9- 10'	12/18/2017	-	6.16	15.1	-	5.69	<1.89	5730	2.40	27.3	<2.83	-	11.7	<0.0179	8.63	8.05	3.67	119

TABLE 5

2017 BACKGROUND CONCENTRATIONS OF TCLP METALS IN THE VADOSE ZONE OF CELL "I"

PLAINS MARKETING, LP
 LEA STATION LANDFARM
 LEA COUNTY, NEW MEXICO
 PLAINS SRS #: 2004-00061
 DISCHARGE PERMIT #: GW-351

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 6020A											SW-846 7471A
				Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Cell "I" @ 6-7'	6-7'	12/18/2017	-	<0.0500	1.24	<0.0250	<0.0500	<0.100	<1.00	<0.0500	0.121	-	-	0.358	<0.000200
Cell "I" @ 9-10'	9-10'	12/18/2017	-	<0.0168	0.542	<0.000656	<0.00681	<0.00488	0.184	<0.00916	<0.00292	-	-	0.327	<0.000100

Appendices

Appendix A

Photographs







C













Appendix B
2019 Laboratory Analytical Reports

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28011



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell A G1	9F28011-01	Soil	06/27/19 06:00	06-27-2019 16:05
TZ Cell A G2	9F28011-02	Soil	06/27/19 06:05	06-27-2019 16:05
TZ Cell A G3	9F28011-03	Soil	06/27/19 06:10	06-27-2019 16:05
TZ Cell A G4	9F28011-04	Soil	06/27/19 06:15	06-27-2019 16:05
TZ Cell A G5	9F28011-05	Soil	06/27/19 06:20	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell A G1
9F28011-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.30	1.02	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		72.6 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		81.8 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell A G2
9F28011-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.43	1.08	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	7.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	26.9	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	26.9	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		82.0 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		93.2 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell A G3
9F28011-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.09	1.02	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		74.0 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		83.6 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell A G4
9F28011-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.81	1.01	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M	
Surrogate: 1-Chlorooctane		68.2 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M	S-GC
Surrogate: o-Terphenyl		78.4 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell A G5
9F28011-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.01	1.00	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	ND	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.0	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.0	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		70.5 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		79.8 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0404 - *** DEFAULT PREP ***										
Blank (P9G0404-BLK1)				Prepared & Analyzed: 07/04/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0404-BS1)				Prepared & Analyzed: 07/04/19						
Chloride	192	1.00	mg/kg wet	200		95.9	80-120			
LCS Dup (P9G0404-BSD1)				Prepared & Analyzed: 07/04/19						
Chloride	194	1.00	mg/kg wet	200		97.2	80-120	1.33	20	
Calibration Blank (P9G0404-CCB1)				Prepared & Analyzed: 07/04/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0404 - *** DEFAULT PREP ***										
Calibration Blank (P9G0404-CCB2)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0404-CCV1)				Prepared & Analyzed: 07/04/19						
Chloride	10.2		mg/kg	10.0		102	0-200			
Calibration Check (P9G0404-CCV2)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	9.67		mg/kg	10.0		96.7	0-200			
Calibration Check (P9G0404-CCV3)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	10.0		mg/kg	10.0		100	0-200			
Matrix Spike (P9G0404-MS1)				Source: 9F27022-02		Prepared & Analyzed: 07/04/19				
Chloride	1190	1.19	mg/kg dry	595	670	86.5	80-120			
Matrix Spike (P9G0404-MS2)				Source: 9F27022-12		Prepared: 07/04/19 Analyzed: 07/05/19				
Chloride	570	1.08	mg/kg dry	538	63.3	94.2	80-120			
Matrix Spike Dup (P9G0404-MSD1)				Source: 9F27022-02		Prepared & Analyzed: 07/04/19				
Chloride	1100	1.19	mg/kg dry	595	670	73.0	80-120	7.06	20	
Matrix Spike Dup (P9G0404-MSD2)				Source: 9F27022-12		Prepared: 07/04/19 Analyzed: 07/05/19				
Chloride	575	1.08	mg/kg dry	538	63.3	95.1	80-120	0.893	20	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2905 - TX 1005

Blank (P9F2905-BLK1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.5		"	100		79.5	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	70-130			

LCS (P9F2905-BS1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	908	25.0	mg/kg wet	1000		90.8	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.3	70-130			

LCS Dup (P9F2905-BSD1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	5.84	20	
>C12-C28	821	25.0	"	1000		82.1	75-125	2.17	20	
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

Calibration Blank (P9F2905-CCB1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	5.92		mg/kg wet							
>C12-C28	12.8		"							
Surrogate: 1-Chlorooctane	68.8		"	100		68.8	70-130			S-GC
Surrogate: o-Terphenyl	36.4		"	50.0		72.7	70-130			

Calibration Blank (P9F2905-CCB2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	7.37		mg/kg wet							
>C12-C28	14.7		"							
Surrogate: 1-Chlorooctane	66.3		"	100		66.3	70-130			S-GC
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2905 - TX 1005

Calibration Check (P9F2905-CCV1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	441	25.0	mg/kg wet	500		88.2	85-115			
>C12-C28	461	25.0	"	500		92.2	85-115			
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	42.8		"	50.0		85.5	70-130			

Calibration Check (P9F2905-CCV2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	485	25.0	mg/kg wet	500		96.9	85-115			
>C12-C28	522	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Duplicate (P9F2905-DUP1)

Source: 9F28013-03

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.5	mg/kg dry		9.86				20	
>C12-C28	21.0	25.5	"		15.2			32.2	20	
Surrogate: 1-Chlorooctane	80.2		"	102		78.6	70-130			
Surrogate: o-Terphenyl	44.6		"	51.0		87.5	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/8/2019

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.

Phone: 432-661-4184

Phone: 432-661-4184

Adjusted:	4.5	°C Factor	1	22
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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28013



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell B G1	9F28013-01	Soil	06/27/19 06:25	06-27-2019 16:05
TZ Cell B G2	9F28013-02	Soil	06/27/19 06:30	06-27-2019 16:05
TZ Cell B G3	9F28013-03	Soil	06/27/19 06:35	06-27-2019 16:05
TZ Cell B G4	9F28013-04	Soil	06/27/19 06:40	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell B G1
9F28013-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.37	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		90.1 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		99.4 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell B G2
9F28013-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.30	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		85.3 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		94.3 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell B G3
9F28013-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.87	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		77.8 %	70-130		P9F2905	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		86.4 %	70-130		P9F2905	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell B G4
9F28013-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	1.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0501 - *** DEFAULT PREP ***										
Blank (P9G0501-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0501-BS1)				Prepared & Analyzed: 07/05/19						
Chloride	194	1.00	mg/kg wet	200		97.1	80-120			
LCS Dup (P9G0501-BSD1)				Prepared & Analyzed: 07/05/19						
Chloride	196	1.00	mg/kg wet	200		97.8	80-120	0.754	20	
Calibration Blank (P9G0501-CCB1)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0501 - *** DEFAULT PREP ***										
Calibration Blank (P9G0501-CCB2)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0501-CCV1)				Prepared & Analyzed: 07/05/19						
Chloride	9.76		mg/kg	10.0		97.6	0-200			
Calibration Check (P9G0501-CCV2)				Prepared & Analyzed: 07/05/19						
Chloride	9.99		mg/kg	10.0		99.9	0-200			
Calibration Check (P9G0501-CCV3)				Prepared & Analyzed: 07/05/19						
Chloride	9.54		mg/kg	10.0		95.4	0-200			
Matrix Spike (P9G0501-MS1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	468	1.02	mg/kg dry	510	1.26	91.4	80-120			
Matrix Spike (P9G0501-MS2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	476	1.03	mg/kg dry	515	2.57	91.8	80-120			
Matrix Spike Dup (P9G0501-MSD1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	480	1.02	mg/kg dry	510	1.26	93.8	80-120	2.56	20	
Matrix Spike Dup (P9G0501-MSD2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	494	1.03	mg/kg dry	515	2.57	95.3	80-120	3.73	20	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2905 - TX 1005

Blank (P9F2905-BLK1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.5		"	100		79.5	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	70-130			

LCS (P9F2905-BS1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	908	25.0	mg/kg wet	1000		90.8	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.3	70-130			

LCS Dup (P9F2905-BSD1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	5.84	20	
>C12-C28	821	25.0	"	1000		82.1	75-125	2.17	20	
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

Calibration Blank (P9F2905-CCB1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	5.92		mg/kg wet							
>C12-C28	12.8		"							
Surrogate: 1-Chlorooctane	68.8		"	100		68.8	70-130			S-GC
Surrogate: o-Terphenyl	36.4		"	50.0		72.7	70-130			

Calibration Blank (P9F2905-CCB2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	7.37		mg/kg wet							
>C12-C28	14.7		"							
Surrogate: 1-Chlorooctane	66.3		"	100		66.3	70-130			S-GC
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2905 - TX 1005

Calibration Check (P9F2905-CCV1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	441	25.0	mg/kg wet	500		88.2	85-115			
>C12-C28	461	25.0	"	500		92.2	85-115			
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	42.8		"	50.0		85.5	70-130			

Calibration Check (P9F2905-CCV2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	485	25.0	mg/kg wet	500		96.9	85-115			
>C12-C28	522	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Duplicate (P9F2905-DUP1)

Source: 9F28013-03

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.5	mg/kg dry		9.86				20	
>C12-C28	21.0	25.5	"		15.2			32.2	20	
Surrogate: 1-Chlorooctane	80.2		"	102		78.6	70-130			
Surrogate: o-Terphenyl	44.6		"	51.0		87.5	70-130			

Batch P9F2906 - TX 1005

Blank (P9F2906-BLK1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	848	25.0	mg/kg wet	1000		84.8	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

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Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

LCS Dup (P9F2906-BSD1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	5.11	20	
>C12-C28	968	25.0	"	1000		96.8	75-125	3.69	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Blank (P9F2906-CCB1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	6.94		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9F2906-CCB2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	8.19		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

Calibration Check (P9F2906-CCV1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	444	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Calibration Check (P9F2906-CCV2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	441	25.0	mg/kg wet	500		88.1	85-115			
>C12-C28	484	25.0	"	500		96.8	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

TRC Solutions- Midland, Texas
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Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Calibration Check (P9F2906-CCV3)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

Duplicate (P9F2906-DUP1)

Source: 9F28017-05

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.8	mg/kg dry		9.94				20	
>C12-C28	23.9	25.8	"		12.5			62.6	20	
Surrogate: 1-Chlorooctane	86.2		"	103		83.6	70-130			
Surrogate: o-Terphenyl	46.5		"	51.5		90.1	70-130			

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Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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Notes and Definitions

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

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 7/8/2019

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, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28014



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell D G1	9F28014-01	Soil	06/27/19 06:45	06-27-2019 16:05
TZ Cell D G2	9F28014-02	Soil	06/27/19 06:50	06-27-2019 16:05
TZ Cell D G3	9F28014-03	Soil	06/27/19 06:55	06-27-2019 16:05
TZ Cell D G4	9F28014-04	Soil	06/27/19 07:00	06-27-2019 16:05
TZ Cell D G5	9F28014-05	Soil	06/27/19 07:05	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell D G1
9F28014-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.80	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		94.9 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		101 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell D G2
9F28014-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.20	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		93.4 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		100 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell D G3
9F28014-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.8	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		97.4 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		101 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell D G4
9F28014-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	1.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell D G5
9F28014-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.17	1.01	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	1.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0501 - *** DEFAULT PREP ***										
Blank (P9G0501-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0501-BS1)				Prepared & Analyzed: 07/05/19						
Chloride	194	1.00	mg/kg wet	200		97.1	80-120			
LCS Dup (P9G0501-BSD1)				Prepared & Analyzed: 07/05/19						
Chloride	196	1.00	mg/kg wet	200		97.8	80-120	0.754	20	
Calibration Blank (P9G0501-CCB1)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							

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Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G0501 - *** DEFAULT PREP ***										
Calibration Blank (P9G0501-CCB2)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0501-CCV1)				Prepared & Analyzed: 07/05/19						
Chloride	9.76		mg/kg	10.0		97.6	0-200			
Calibration Check (P9G0501-CCV2)				Prepared & Analyzed: 07/05/19						
Chloride	9.99		mg/kg	10.0		99.9	0-200			
Calibration Check (P9G0501-CCV3)				Prepared & Analyzed: 07/05/19						
Chloride	9.54		mg/kg	10.0		95.4	0-200			
Matrix Spike (P9G0501-MS1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	468	1.02	mg/kg dry	510	1.26	91.4	80-120			
Matrix Spike (P9G0501-MS2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	476	1.03	mg/kg dry	515	2.57	91.8	80-120			
Matrix Spike Dup (P9G0501-MSD1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	480	1.02	mg/kg dry	510	1.26	93.8	80-120	2.56	20	
Matrix Spike Dup (P9G0501-MSD2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	494	1.03	mg/kg dry	515	2.57	95.3	80-120	3.73	20	

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10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Blank (P9F2906-BLK1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	848	25.0	mg/kg wet	1000		84.8	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

LCS Dup (P9F2906-BSD1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	5.11	20	
>C12-C28	968	25.0	"	1000		96.8	75-125	3.69	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Blank (P9F2906-CCB1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	6.94		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9F2906-CCB2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	8.19		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
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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 P9F2906 - TX 1005

Calibration Check (P9F2906-CCV1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	444	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Calibration Check (P9F2906-CCV2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	441	25.0	mg/kg wet	500		88.1	85-115			
>C12-C28	484	25.0	"	500		96.8	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

Calibration Check (P9F2906-CCV3)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

Duplicate (P9F2906-DUP1)

Source: 9F28017-05

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.8	mg/kg dry		9.94				20	
>C12-C28	23.9	25.8	"		12.5			62.6	20	
Surrogate: 1-Chlorooctane	86.2		"	103		83.6	70-130			
Surrogate: o-Terphenyl	46.5		"	51.5		90.1	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice
BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

7/8/2019

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, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Curt Stanley

Project Name: Lea Station Landfarm

Company Name: TRC Environmental Corporation

Project #: 2004-00061

Company Address: 10 Deste Drive, Suite 150 E

Project Loc: Lea County, NM

City/State/Zip: Midland/TX/79705

PO #:

Telephone No: (432)520-7720

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Derek Davis

e-mail: cdstanley@trcsolutions.com
cjbryan@paalp.com

(lab use only)

ORDER #: 9528014

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 Be Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	TZ Cell D G1			6/27/2019	0645		1	X								Soil	X															X
2	TZ Cell D G2			6/27/2019	0650		1	X								Soil	X															X
3	TZ Cell D G3			6/27/2019	0655		1	X								Soil	X															X
4	TZ Cell D G4			6/27/2019	0700		1	X								Soil	X															X
5	TZ Cell D G5			6/27/2019	0705		1	X								Soil	X															X

Special Instructions:

Bill to Plains

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	6/27/19	0900	<i>[Signature]</i>	6/27/19	1605	<i>[Signature]</i>	6/27/19	1605	<i>[Signature]</i>	6/27/19	1605
Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	6/27/19	1605	<i>[Signature]</i>	6/27/19	1605	<i>[Signature]</i>	6/27/19	1605	<i>[Signature]</i>	6/27/19	1605

Received by: PBEI

Received: 4:55

Adjusted: 1.2

Temperature Upon Receipt: 4.5

°C Factor: 1.2

Laboratory Comments:

Sample Containers: 11

VOCs Free of Headspace? ☒

Labels on Containers? ☒

Custody seals on containers? ☒

Sample Hand Delivered by Sampler/Client Rep.? ☒

by Courier? ☒

UPS ☒

DHL ☒

FedEx ☒

Lone Star ☒

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28015



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell E G1	9F28015-01	Soil	06/27/19 07:10	06-27-2019 16:05
TZ Cell E G2	9F28015-02	Soil	06/27/19 07:15	06-27-2019 16:05
TZ Cell E G3	9F28015-03	Soil	06/27/19 07:20	06-27-2019 16:05
TZ Cell E G4	9F28015-04	Soil	06/27/19 07:25	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell E G1
9F28015-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.57	1.03	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		97.5 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell E G2
9F28015-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.57	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		97.0 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell E G3
9F28015-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.54	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.0 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		97.4 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell E G4
9F28015-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.04	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		92.9 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		94.7 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0501 - *** DEFAULT PREP ***										
Blank (P9G0501-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0501-BS1)				Prepared & Analyzed: 07/05/19						
Chloride	194	1.00	mg/kg wet	200		97.1	80-120			
LCS Dup (P9G0501-BSD1)				Prepared & Analyzed: 07/05/19						
Chloride	196	1.00	mg/kg wet	200		97.8	80-120	0.754	20	
Calibration Blank (P9G0501-CCB1)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0501 - *** DEFAULT PREP ***										
Calibration Blank (P9G0501-CCB2)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0501-CCV1)				Prepared & Analyzed: 07/05/19						
Chloride	9.76		mg/kg	10.0		97.6	0-200			
Calibration Check (P9G0501-CCV2)				Prepared & Analyzed: 07/05/19						
Chloride	9.99		mg/kg	10.0		99.9	0-200			
Calibration Check (P9G0501-CCV3)				Prepared & Analyzed: 07/05/19						
Chloride	9.54		mg/kg	10.0		95.4	0-200			
Matrix Spike (P9G0501-MS1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	468	1.02	mg/kg dry	510	1.26	91.4	80-120			
Matrix Spike (P9G0501-MS2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	476	1.03	mg/kg dry	515	2.57	91.8	80-120			
Matrix Spike Dup (P9G0501-MSD1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	480	1.02	mg/kg dry	510	1.26	93.8	80-120	2.56	20	
Matrix Spike Dup (P9G0501-MSD2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	494	1.03	mg/kg dry	515	2.57	95.3	80-120	3.73	20	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9F2906 - TX 1005

Blank (P9F2906-BLK1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	848	25.0	mg/kg wet	1000		84.8	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

LCS Dup (P9F2906-BSD1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	5.11	20	
>C12-C28	968	25.0	"	1000		96.8	75-125	3.69	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Blank (P9F2906-CCB1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	6.94		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9F2906-CCB2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	8.19		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Calibration Check (P9F2906-CCV1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	444	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Calibration Check (P9F2906-CCV2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	441	25.0	mg/kg wet	500		88.1	85-115			
>C12-C28	484	25.0	"	500		96.8	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

Calibration Check (P9F2906-CCV3)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

Duplicate (P9F2906-DUP1)

Source: 9F28017-05

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.8	mg/kg dry		9.94				20	
>C12-C28	23.9	25.8	"		12.5			62.6	20	
Surrogate: 1-Chlorooctane	86.2		"	103		83.6	70-130			
Surrogate: o-Terphenyl	46.5		"	51.5		90.1	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice
BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

7/8/2019

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.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Page 1 of 1

Project Manager: Curt Stanley

Company Name TRC Environmental Corporation

Company Address: 10 Desta Drive, Suite 150 E

City/State/Zip: Midland/TX/79705

Telephone No: (432)520-7720

Sampler Signature: Deek Davis

e-mail: cdstanley@trcsolutions.com

cjbryant@paalp.com

Fax No:

Report Format:

☒ Standard

☐ TRPA

NPDES

Project Name: Lea Station Landfarm
Project #: 2004-00061

2004-00061

Page 12 of 12

(lab use only)

ORDER #: 9F28015

[illegible]

Special Instructions:

Bill to Plains

[illegible]

Sample Hand Delivered	Time	Date	Received by:	Time	Date /	Relinquished by:
Y						
N						

[illegible]

Adjusted: 4.3	6/27/13	
°C Factor	1.00	
	1.22	

Laboratory Comments:

VOCs Free of Headspace?

Custody seals on containers

Sample Hand Delivered

UPS by Courier?

Received: 30-5-
Adjusted: 4-5-
°C

2
 3
 4
 5
 6
 7
 8
 9
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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28016



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell F G1	9F28016-01	Soil	06/27/19 07:35	06-27-2019 16:05
TZ Cell F G2	9F28016-02	Soil	06/27/19 07:40	06-27-2019 16:05
TZ Cell F G3	9F28016-03	Soil	06/27/19 07:45	06-27-2019 16:05
TZ Cell F G4	9F28016-04	Soil	06/27/19 07:50	06-27-2019 16:05
TZ Cell F G5	9F28016-05	Soil	06/27/19 07:55	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell F G1
9F28016-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.87	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		91.9 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		100 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell F G2
9F28016-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.34	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		93.5 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		99.6 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell F G3
9F28016-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.78	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		96.1 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell F G4
9F28016-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.61	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.7 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		95.8 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell F G5
9F28016-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.36	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		91.9 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		101 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0501 - *** DEFAULT PREP ***										
Blank (P9G0501-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0501-BS1)				Prepared & Analyzed: 07/05/19						
Chloride	194	1.00	mg/kg wet	200		97.1	80-120			
LCS Dup (P9G0501-BSD1)				Prepared & Analyzed: 07/05/19						
Chloride	196	1.00	mg/kg wet	200		97.8	80-120	0.754	20	
Calibration Blank (P9G0501-CCB1)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0501 - *** DEFAULT PREP ***										
Calibration Blank (P9G0501-CCB2)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0501-CCV1)				Prepared & Analyzed: 07/05/19						
Chloride	9.76		mg/kg	10.0		97.6	0-200			
Calibration Check (P9G0501-CCV2)				Prepared & Analyzed: 07/05/19						
Chloride	9.99		mg/kg	10.0		99.9	0-200			
Calibration Check (P9G0501-CCV3)				Prepared & Analyzed: 07/05/19						
Chloride	9.54		mg/kg	10.0		95.4	0-200			
Matrix Spike (P9G0501-MS1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	468	1.02	mg/kg dry	510	1.26	91.4	80-120			
Matrix Spike (P9G0501-MS2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	476	1.03	mg/kg dry	515	2.57	91.8	80-120			
Matrix Spike Dup (P9G0501-MSD1)		Source: 9F28012-05		Prepared & Analyzed: 07/05/19						
Chloride	480	1.02	mg/kg dry	510	1.26	93.8	80-120	2.56	20	
Matrix Spike Dup (P9G0501-MSD2)		Source: 9F28015-01		Prepared & Analyzed: 07/05/19						
Chloride	494	1.03	mg/kg dry	515	2.57	95.3	80-120	3.73	20	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Blank (P9F2906-BLK1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	848	25.0	mg/kg wet	1000		84.8	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

LCS Dup (P9F2906-BSD1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	5.11	20	
>C12-C28	968	25.0	"	1000		96.8	75-125	3.69	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Blank (P9F2906-CCB1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	6.94		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9F2906-CCB2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	8.19		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Calibration Check (P9F2906-CCV1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	444	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Calibration Check (P9F2906-CCV2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	441	25.0	mg/kg wet	500		88.1	85-115			
>C12-C28	484	25.0	"	500		96.8	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

Calibration Check (P9F2906-CCV3)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

Duplicate (P9F2906-DUP1)

Source: 9F28017-05

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.8	mg/kg dry		9.94				20	
>C12-C28	23.9	25.8	"		12.5			62.6	20	
Surrogate: 1-Chlorooctane	86.2		"	103		83.6	70-130			
Surrogate: o-Terphenyl	46.5		"	51.5		90.1	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice
BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

7/8/2019

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, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28017



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell G G1	9F28017-01	Soil	06/27/19 08:00	06-27-2019 16:05
TZ Cell G G2	9F28017-02	Soil	06/27/19 08:05	06-27-2019 16:05
TZ Cell G G3	9F28017-03	Soil	06/27/19 08:10	06-27-2019 16:05
TZ Cell G G4	9F28017-04	Soil	06/27/19 08:20	06-27-2019 16:05
TZ Cell G G5	9F28017-05	Soil	06/27/19 08:20	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell G G1
9F28017-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.21	1.02	mg/kg dry	1	P9G0504	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		92.4 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		103 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell G G2
9F28017-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.03	mg/kg dry	1	P9G0504	07/05/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		89.5 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		98.6 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell G G3
9F28017-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.03	mg/kg dry	1	P9G0504	07/05/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.6 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		97.4 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell G G4
9F28017-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.36	1.03	mg/kg dry	1	P9G0504	07/05/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		73.1 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		77.9 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell G G5
9F28017-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.04	1.03	mg/kg dry	1	P9G0504	07/05/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: 1-Chlorooctane		78.1 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Surrogate: o-Terphenyl		83.0 %	70-130		P9F2906	06/29/19	07/02/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/02/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05 Prepared & Analyzed: 07/01/19						
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05 Prepared & Analyzed: 07/01/19						
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01 Prepared & Analyzed: 07/01/19						
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0504 - *** DEFAULT PREP ***										
Blank (P9G0504-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0504-BS1)				Prepared & Analyzed: 07/05/19						
Chloride	197	1.00	mg/kg wet	200		98.4	80-120			
LCS Dup (P9G0504-BSD1)				Prepared & Analyzed: 07/05/19						
Chloride	190	1.00	mg/kg wet	200		94.9	80-120	3.61	20	
Calibration Blank (P9G0504-CCB1)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0504 - *** DEFAULT PREP ***										
Calibration Blank (P9G0504-CCB2)				Prepared & Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0504-CCV1)				Prepared & Analyzed: 07/05/19						
Chloride	9.42		mg/kg	10.0		94.2	0-200			
Calibration Check (P9G0504-CCV2)				Prepared & Analyzed: 07/05/19						
Chloride	10.0		mg/kg	10.0		100	0-200			
Calibration Check (P9G0504-CCV3)				Prepared: 07/05/19 Analyzed: 07/06/19						
Chloride	10.1		mg/kg	10.0		101	0-200			
Matrix Spike (P9G0504-MS1)		Source: 9F28017-02		Prepared & Analyzed: 07/05/19						
Chloride	490	1.03	mg/kg dry	515	0.299	95.1	80-120			
Matrix Spike (P9G0504-MS2)		Source: 9F28020-01		Prepared: 07/05/19 Analyzed: 07/06/19						
Chloride	7610	27.2	mg/kg dry	2720	5190	88.8	80-120			
Matrix Spike Dup (P9G0504-MSD1)		Source: 9F28017-02		Prepared & Analyzed: 07/05/19						
Chloride	480	1.03	mg/kg dry	515	0.299	93.0	80-120	2.23	20	
Matrix Spike Dup (P9G0504-MSD2)		Source: 9F28020-01		Prepared: 07/05/19 Analyzed: 07/06/19						
Chloride	7860	27.2	mg/kg dry	2720	5190	98.2	80-120	3.30	20	

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Blank (P9F2906-BLK1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	848	25.0	mg/kg wet	1000		84.8	75-125			
>C12-C28	933	25.0	"	1000		93.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

LCS Dup (P9F2906-BS1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	893	25.0	mg/kg wet	1000		89.3	75-125	5.11	20	
>C12-C28	968	25.0	"	1000		96.8	75-125	3.69	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Blank (P9F2906-CCB1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	6.94		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Blank (P9F2906-CCB2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	8.19		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2906 - TX 1005

Calibration Check (P9F2906-CCV1)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	444	25.0	"	500		88.9	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Calibration Check (P9F2906-CCV2)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	441	25.0	mg/kg wet	500		88.1	85-115			
>C12-C28	484	25.0	"	500		96.8	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

Calibration Check (P9F2906-CCV3)

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

Duplicate (P9F2906-DUP1)

Source: 9F28017-05

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.8	mg/kg dry		9.94				20	
>C12-C28	23.9	25.8	"		12.5			62.6	20	
Surrogate: 1-Chlorooctane	86.2		"	103		83.6	70-130			
Surrogate: o-Terphenyl	46.5		"	51.5		90.1	70-130			

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI	Received on Ice
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

7/8/2019

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, LP
10014 S. County Road 1213
Midland, Texas 79706

Project Manager: Curt Stanley

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive, Suite 150 E

City/State/Zip: Midland/TX/79705

Telephone No: (432)520-7720

Sampler Signature: *Perk Davis*

e-mail: cdstanley@trcsolutions.com

clbryan@paalp.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #:

Project Loc: Lea County, NM

Project Name: Lea Station Landfarm

Project #: 2004-00061

(lab use only)

ORDER #: 9F28017

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 8280	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	TZ Cell G G1			6/27/2019	0800		1	X								Soil	X															X
2	TZ Cell G G2			6/27/2019	0805		1	X								Soil	X															X
3	TZ Cell G G3			6/27/2019	0810		1	X								Soil	X															X
4	TZ Cell G G4			6/27/2019	0815		1	X								Soil	X															X
5	TZ Cell G G5			6/27/2019	0820		1	X								Soil	X															X

Special Instructions:

Bill to Plains

Relinquished by:	Date	Time	Received by:	Date	Time
<i>Perk Davis</i>			<i>Perk Davis</i>		
Relinquished by:	Date	Time	Received by:	Date	Time
<i>Perk Davis</i>	6/27/19	1605	<i>Perk Davis</i>	6/27/16	1605
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:
 Sample Containers:
 VOCs Free of Headspace?
 Custody seals on container(s)
 Sample Hand Delivered by Courier?
 Temperature Upon Receipt:
 Adjusted:
 C Factor:

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Location: Lea County, NM
Lab Order Number: 9F28012



NELAP/TCEQ # T104704516-18-9

Report Date: 07/08/19

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TZ Cell H G1	9F28012-01	Soil	06/27/19 08:25	06-27-2019 16:05
TZ Cell H G2	9F28012-02	Soil	06/27/19 08:30	06-27-2019 16:05
TZ Cell H G3	9F28012-03	Soil	06/27/19 08:35	06-27-2019 16:05
TZ Cell H G4	9F28012-04	Soil	06/27/19 08:40	06-27-2019 16:05
TZ Cell H G5	9F28012-05	Soil	06/27/19 08:45	06-27-2019 16:05

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell H G1
9F28012-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.90	1.02	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		77.6 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		88.1 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell H G2
9F28012-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.95	1.03	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		83.5 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		93.0 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell H G3
9F28012-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.14	1.03	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		76.3 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		83.0 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell H G4
9F28012-04 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.77	1.03	mg/kg dry	1	P9G0404	07/04/19	07/05/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		82.8 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		91.3 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
Project Manager: Curt Stanley

Fax: (432) 520-7701

TZ Cell H G5
9F28012-05 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.26	1.02	mg/kg dry	1	P9G0501	07/05/19	07/05/19	EPA 300.0
% Moisture	2.0	0.1	%	1	P9G0101	07/01/19	07/01/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: 1-Chlorooctane		79.6 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Surrogate: o-Terphenyl		84.8 %	70-130		P9F2905	06/29/19	07/01/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/19	07/01/19	calc

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0101 - *** DEFAULT PREP ***										
Blank (P9G0101-BLK1)				Prepared & Analyzed: 07/01/19						
% Moisture	ND	0.1	%							
Duplicate (P9G0101-DUP1)				Source: 9F28014-05		Prepared & Analyzed: 07/01/19				
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P9G0101-DUP2)				Source: 9F28019-05		Prepared & Analyzed: 07/01/19				
% Moisture	17.0	0.1	%		18.0			5.71	20	
Duplicate (P9G0101-DUP3)				Source: 9F28021-01		Prepared & Analyzed: 07/01/19				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P9G0101-DUP4)				Source: 9F28024-01		Prepared & Analyzed: 07/01/19				
% Moisture	3.0	0.1	%		2.0			40.0	20	
Batch P9G0404 - *** DEFAULT PREP ***										
Blank (P9G0404-BLK1)				Prepared & Analyzed: 07/04/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9G0404-BS1)				Prepared & Analyzed: 07/04/19						
Chloride	192	1.00	mg/kg wet	200		95.9	80-120			
LCS Dup (P9G0404-BSD1)				Prepared & Analyzed: 07/04/19						
Chloride	194	1.00	mg/kg wet	200		97.2	80-120	1.33	20	
Calibration Blank (P9G0404-CCB1)				Prepared & Analyzed: 07/04/19						
Chloride	0.00		mg/kg wet							

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0404 - *** DEFAULT PREP ***										
Calibration Blank (P9G0404-CCB2)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G0404-CCV1)				Prepared & Analyzed: 07/04/19						
Chloride	10.2		mg/kg	10.0		102	0-200			
Calibration Check (P9G0404-CCV2)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	9.67		mg/kg	10.0		96.7	0-200			
Calibration Check (P9G0404-CCV3)				Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	10.0		mg/kg	10.0		100	0-200			
Matrix Spike (P9G0404-MS1)				Source: 9F27022-02 Prepared & Analyzed: 07/04/19						
Chloride	1190	1.19	mg/kg dry	595	670	86.5	80-120			
Matrix Spike (P9G0404-MS2)				Source: 9F27022-12 Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	570	1.08	mg/kg dry	538	63.3	94.2	80-120			
Matrix Spike Dup (P9G0404-MSD1)				Source: 9F27022-02 Prepared & Analyzed: 07/04/19						
Chloride	1100	1.19	mg/kg dry	595	670	73.0	80-120	7.06	20	
Matrix Spike Dup (P9G0404-MSD2)				Source: 9F27022-12 Prepared: 07/04/19 Analyzed: 07/05/19						
Chloride	575	1.08	mg/kg dry	538	63.3	95.1	80-120	0.893	20	
Batch P9G0501 - *** DEFAULT PREP ***										
Blank (P9G0501-BLK1)				Prepared & Analyzed: 07/05/19						
Chloride	ND	1.00	mg/kg wet							

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10 Desta Dr STE 150E
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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 P9G0501 - * DEFAULT PREP *****

LCS (P9G0501-BS1)

Prepared & Analyzed: 07/05/19

Chloride	194	1.00	mg/kg wet	200		97.1	80-120			
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LCS Dup (P9G0501-BSD1)

Prepared & Analyzed: 07/05/19

Chloride	196	1.00	mg/kg wet	200		97.8	80-120	0.754	20	
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Calibration Blank (P9G0501-CCB1)

Prepared & Analyzed: 07/05/19

Chloride	0.00		mg/kg wet							
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Calibration Blank (P9G0501-CCB2)

Prepared & Analyzed: 07/05/19

Chloride	0.00		mg/kg wet							
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Calibration Check (P9G0501-CCV1)

Prepared & Analyzed: 07/05/19

Chloride	9.76		mg/kg	10.0		97.6	0-200			
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Calibration Check (P9G0501-CCV2)

Prepared & Analyzed: 07/05/19

Chloride	9.99		mg/kg	10.0		99.9	0-200			
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Calibration Check (P9G0501-CCV3)

Prepared & Analyzed: 07/05/19

Chloride	9.54		mg/kg	10.0		95.4	0-200			
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Matrix Spike (P9G0501-MS1)

Source: 9F28012-05

Prepared & Analyzed: 07/05/19

Chloride	468	1.02	mg/kg dry	510	1.26	91.4	80-120			
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Matrix Spike (P9G0501-MS2)

Source: 9F28015-01

Prepared & Analyzed: 07/05/19

Chloride	476	1.03	mg/kg dry	515	2.57	91.8	80-120			
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Matrix Spike Dup (P9G0501-MSD1)

Source: 9F28012-05

Prepared & Analyzed: 07/05/19

Chloride	480	1.02	mg/kg dry	510	1.26	93.8	80-120	2.56	20	
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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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 P9G0501 - * DEFAULT PREP *****

Matrix Spike Dup (P9G0501-MSD2)

Source: 9F28015-01

Prepared & Analyzed: 07/05/19

Chloride	494	1.03	mg/kg dry	515	2.57	95.3	80-120	3.73	20	
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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Lea Station Landfarm
Project Number: SRS# 2004-00061
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
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Batch P9F2905 - TX 1005

Blank (P9F2905-BLK1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.5		"	100		79.5	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	70-130			

LCS (P9F2905-BS1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	908	25.0	mg/kg wet	1000		90.8	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.3	70-130			

LCS Dup (P9F2905-BSD1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	5.84	20	
>C12-C28	821	25.0	"	1000		82.1	75-125	2.17	20	
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

Calibration Blank (P9F2905-CCB1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	5.92		mg/kg wet							
>C12-C28	12.8		"							
Surrogate: 1-Chlorooctane	68.8		"	100		68.8	70-130			S-GC
Surrogate: o-Terphenyl	36.4		"	50.0		72.7	70-130			

Calibration Blank (P9F2905-CCB2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	7.37		mg/kg wet							
>C12-C28	14.7		"							
Surrogate: 1-Chlorooctane	66.3		"	100		66.3	70-130			S-GC
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9F2905 - TX 1005

Calibration Check (P9F2905-CCV1)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	441	25.0	mg/kg wet	500		88.2	85-115			
>C12-C28	461	25.0	"	500		92.2	85-115			
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	42.8		"	50.0		85.5	70-130			

Calibration Check (P9F2905-CCV2)

Prepared: 06/29/19 Analyzed: 07/01/19

C6-C12	485	25.0	mg/kg wet	500		96.9	85-115			
>C12-C28	522	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Duplicate (P9F2905-DUP1)

Source: 9F28013-03

Prepared: 06/29/19 Analyzed: 07/02/19

C6-C12	ND	25.5	mg/kg dry		9.86				20	
>C12-C28	21.0	25.5	"		15.2			32.2	20	
Surrogate: 1-Chlorooctane	80.2		"	102		78.6	70-130			
Surrogate: o-Terphenyl	44.6		"	51.0		87.5	70-130			

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Midland TX, 79705

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Notes and Definitions

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

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/8/2019

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.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-661-4184

Project Manager: Curt Stanley

Project Name: Lea Station Landfarm

Company Name: TRC Environmental Corporation

Project #: 2004-00061

Company Address: 10 Desta Drive, Suite 150 E

Project Loc: Lea County, NM

City/State/Zip: Midland/TX/79705

PO #:

Telephone No: (432)520-7720

Fax No:

Sampler Signature: Derek Davis
e-mail: cdstanley@trcsolutions.com
cjbryant@paalp.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 9F28012

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-Petroleum Specify Other	TPH: 418.1 6015M 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 S	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	TCLP BTEX	RUSH TAT (Pre-Schedule) 24,	Standard TAT
								1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	TZ Cell H G1			6/27/2019	0825		1	X								Soil																X
2	TZ Cell H G2			6/27/2019	0830		1	X								Soil																X
3	TZ Cell H G3			6/27/2019	0835		1	X								Soil																X
4	TZ Cell H G4			6/27/2019	0840		1	X								Soil																X
5	TZ Cell H G5			6/27/2019	0845		1	X								Soil																X

Special Instructions:

Bill to Plains

Dispatched by:	<u>[Signature]</u>	Date	07/11	Time	0900	Received by:	<u>[Signature]</u>	Date		Time	
Dispatched by:	<u>[Signature]</u>	Date	6/27/19	Time	16:05	Received by:	<u>[Signature]</u>	Date		Time	
Dispatched by:	<u>[Signature]</u>	Date		Time		Received by:	<u>[Signature]</u>	Date	6/27/19	Time	16:05