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Remediation and Closure Report

Hackberry 26 Fed Com 1H
Eddy County, New Mexico
API # 30-015-43856
Incident # **Nvv2002839011**

Prepared For:

Cimarex Energy
600 N Marienfeld Ste 60
Midland, TX 79701

Prepared By:

TALON/LPE
408 West Texas Avenue
Artesia, New Mexico 88210

July 24, 2020

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Mr. Jim Amos
BLM
620 E. Greene St.
Carlsbad, NM 88220

Subject: **Remediation and Closure Report**
Hackberry 26 Fed Com 1H
Eddy County, NM
API # 30-015-43856

Dear Mr. Bratcher,

Emergency Response & Training Solutions Company (ERTS) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

Site Information

The Hackberry Battery is located approximately 24 miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 26, Township 19 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.6360706 North and -103.9375763 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). The local surface and shallow geology are Holocene to upper Pleistocene in age and is comprised of alluvial deposits. Drainage courses in this area are well drained. The project site is located in a high Karst potential area (Figure 5, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 65-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

Approximate Depth to Groundwater	65 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or a playa lake
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this incident occurred in an unstable area that is categorized as critical karst, the closure criteria for this site is as follows:

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On May 06, 2019, 7barrels (bbls) of produced water (of which non-was recovered) were released due to human error. An oil hauler overfilled the tank on the transport ruck while loading. An initial C-141 was submitted on May 07, 2019 and is provided in [Appendix III](#). The Incident Number assigned to this incident is **Nvv2002839011**.

Site Assessment

On August 07, 2019 Talon mobilized personnel to begin site assessment and soil sampling activities. Grab soil samples were initially collected from the impacted area utilizing a hand auger. All soil samples were properly contained, preserved and Transported to Cardinal Laboratories for analyses of Chloride (SM4500Cl-B), BTEX (8021B), and TPH (8015M). Analytical results from our initial sampling events are presented in the following data table. Initial site assessment sample positions are illustrated on Figure 3, in [Appendix I](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1 : Initial Soil Sample Analysis

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	0	8/7/2019	ND	ND	ND	102	129	231	64
S-1	1	8/7/2019	ND	ND	ND	41.5	44.3	85.8	48
S-1	2	8/7/2019	ND	ND	ND	ND	ND	-	32
S-2	0	8/7/2019	ND	ND	ND	ND	ND	-	256
S-2	1	8/7/2019	ND	ND	ND	ND	ND	-	80
S-2	2	8/7/2019	ND	ND	ND	ND	ND	-	32
S-3	0	8/7/2019	0.711	ND	88.8	10200	2800	13088.8	80
	1	8/7/2019	ND	ND	ND	ND	ND	-	16
	2	8/7/2019	ND	ND	ND	ND	ND	-	30
S-4	0	8/7/2019	ND	ND	ND	5920	1120	7040	688
	1	8/7/2019	ND	ND	ND	ND	24.1	24.1	224
	2	8/7/2019	ND	ND	ND	ND	ND	ND	32
S-5	0	8/7/2019	ND	ND	ND	2120	772	2892	208
	1	08/7/2019	ND	ND	ND	110	28.6	138.6	96
	2	08/07/2019	ND	ND	ND	17.8	ND	17.8	96
S-6	0	08/07/2019	ND	ND	ND	332	134	468	48
	1	08/07/2019	ND	ND	ND	ND	ND	ND	64
	2	08/07/2019	ND	ND	ND	ND	ND	ND	32
S-7	0	08/07/2019	ND	ND	ND	ND	ND	ND	160
	1	08/07/2019	ND	ND	ND	ND	ND	ND	48
	2	08/07/2019	ND	ND	ND	ND	ND	ND	16
S-8	0	08/07/2019	ND	ND	ND	25.4	12.9	38.3	80
	1	08/7/2019	ND	ND	ND	ND	ND	ND	48
	2	08/07/2019	ND	ND	ND	ND	ND	ND	32

ND = Analyte Not Detected

Based on the results of our site assessment and upon client authorization, excavation activities commenced on April 20, 2020. Approximately .5' bgs. was excavated throughout the impacted area. Confirmation samples were collected at the base of sidewalls which also serve as bottom confirmation of soil analytes and that NMOCD closure criteria had been met, for the analytes of concern. The results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1 S SW	.5'	4/15/2020	NT	NT	ND	420	310	730	NT
S-2 S SW	.5'	4/15/2020	NT	NT	ND	3400	1600	5000	NT
S-3 W SW	.5'	4/15/2020	NT	NT	46	5900	2400	8300	NT
S-4 N SW	.5'	4/15/2020	NT	NT	ND	300	260	560	NT
S-5 N SW	.5'	4/15/2020	NT	NT	ND	800	540	1340	NT
S-6 E SW	.5'	4/15/2020	NT	NT	ND	280	310	590	NT
S-7 E SW	.5'	4/15/2020	NT	NT	ND	1500	1200	2700	NT

ND = Analyte Not Detected

SW = Sidewall Soil Sample

NT = Analyte Not Tested

On May 08, 2020 based on the laboratory results from the sidewall excavation, Talon equipment and personnel returned to the Hackberry. All of the above referenced sidewall positions (S1 thru S7) were further excavated horizontally in an effort to remove Petroleum Hydrocarbons to the extent that regulatory remediation levels could be achieved. Composite samples were grabbed of the sidewalls, properly contained, preserved, and transported to Hall Laboratories for analysis of the constituency of concern. Below is a table referencing the results. The supporting laboratory analyses can be viewed in [Appendix V](#).

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1 S SW	.5'	5/08/2020	NT	NT	ND	1000	590	1590	NT
S-2 S SW	.5'	5/08/2020	NT	NT	ND	12000	5900	17900	NT
S-3 W SW	.5'	5/08/2020	NT	NT	ND	170	140	310	NT
S-4 N SW	.5'	5/08/2020	NT	NT	ND	18	ND	18	NT
S-5 N SW	.5'	5/08/2020	NT	NT	ND	120	130	250	NT
S-6 E SW	.5'	5/08/2020	NT	NT	ND	510	770	1280	NT
S-7 E SW	.5'	5/08/2020	NT	NT	ND	140	150	290	NT

On May 20, 2020 based on the laboratory results and sample results from sidewalls: Talon personnel and equipment returned to the site in order to advance test trenches in each of the above referenced areas of impact, so that horizontal delineation could be ascertained. It was determined that five (5) test trenches advanced horizontally to 4' in breadth, respectively would encompass the remaining areas of focus. An additional 1' in the sidewall was removed in the areas of S1 and S6 respectively, and stockpiled. All soil samples were properly packaged preserved and transported to Hall Environmental Analysis Laboratory, Inc., by chain of custody for analysis of TPH (Method 8015M/D), which was the analyte of concern. Below is a table of reference for the results. The complete laboratory report can be viewed in [Appendix V](#).

Sample ID	Horizontal (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
TT-1	1'	5/20/2020	NT	NT	ND	30	ND	30	NT
TT-1	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-1	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-1	4'	5/20/2020	NT	NT	ND	53	ND	ND	NT
TT-2	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	4'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-3	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-3	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	4'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-7	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-7	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT

ND= Analyte Not Detected

NT= Analyte Not Tested

On June 30, 2020 Talon personnel and equipment mobilized to the site in order to further excavate the area of S2 and S3 an additional 1' bgs., as well as advance the sidewall an additional foot past the high-pressure line that traversed perpendicular to the production facility. Pursuant to the test trench results, the sidewall of S1 and S6 was advanced an additional foot horizontally. Cimarex shut in the facility due to the high-pressure line and gave consent for the remediation of this area to ensue. A composite sidewall sample was retrieved at 1' bgs. in the area of S2-S3. The soil was properly contained, preserved and transported to Hall Laboratories for analysis of TPH (Method 8015 M/D). The results are recapped below. The complete laboratory report can be viewed in [Appendix V](#).

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S2-S3 SW	1' Composite	6/30/2020	NT	NT	ND	11	61	72	NT

SW= Sidewall

NT= Analyte Not Tested

ND= Analyte Not Detected

On July 27, 2020 Talon personnel revisited the site in order to grab background pursuant to NMOC guidelines, confirming that horizontal remediation had been achieved. Furthermore, that the spill footprint was confined to the pad area. Three background samples were grabbed on the East, West, and South of the remediated area. The samples were properly contained, preserved, and transported to Hall Laboratories for analysis of TPH. The results are recapped below for ease of reference. The complete Laboratory analysis can be viewed in [Appendix V](#).

Sample ID	Horizontal (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
BG-East	0-1' Composite	7/27/2020	NT	NT	ND	ND	ND	-	200
BG-South	0-1' Composite		NT	NT	ND	ND	ND	-	160
BG-West	0-1' Composite		NT	NT	ND	ND	ND	-	120

NT= Analyte Not Tested

ND= Analyte Not Detected

Remedial Actions

- The footprint of the spill area was excavated to .5' bgs. in its entirety.
- The impacted area surrounding sample points S2 and S3 respectively was removed to a depth of 3.0-feet.
- The sidewalls were excavated horizontally whereby test trench results achieved soil remediation levels in accordance with NMOCD and BLM guidelines. The results are shown in the corresponding lab reports that may be viewed in [Appendix V](#).
- All the excavated material (54 tons of contaminated soil) was hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility. Disposal Manifest are appended ([Appendix VI](#)).
- The excavated areas on the well pad were backfilled with new caliche to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Emergency Response and Training Solutions we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Rebecca Pons
Project Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data
- Appendix VI Disposal Manifests



APPENDIX I

SITE MAPS

Hackberry 26 Federal Battery

Cimarex
Eddy County, NM
API 30-015-43857

Legend *Page 12 of 96*

-  Excavation Area
-  Samples
-  Spill Impact Area



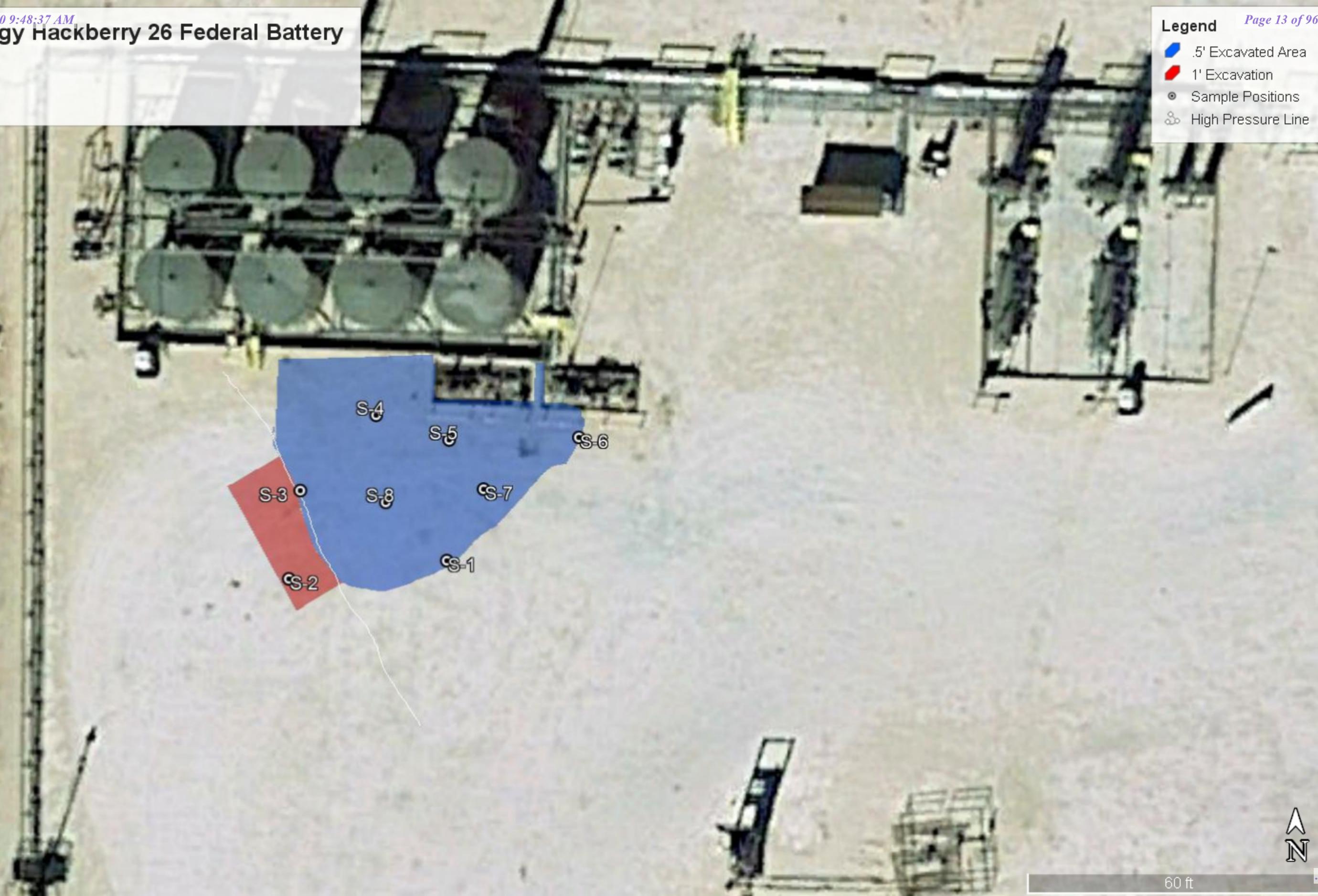
Cimarex Energy Hackberry 26 Federal Battery

Eddy County, NM
API 30-015-43857
Excavation Site Plan

Page 13 of 96

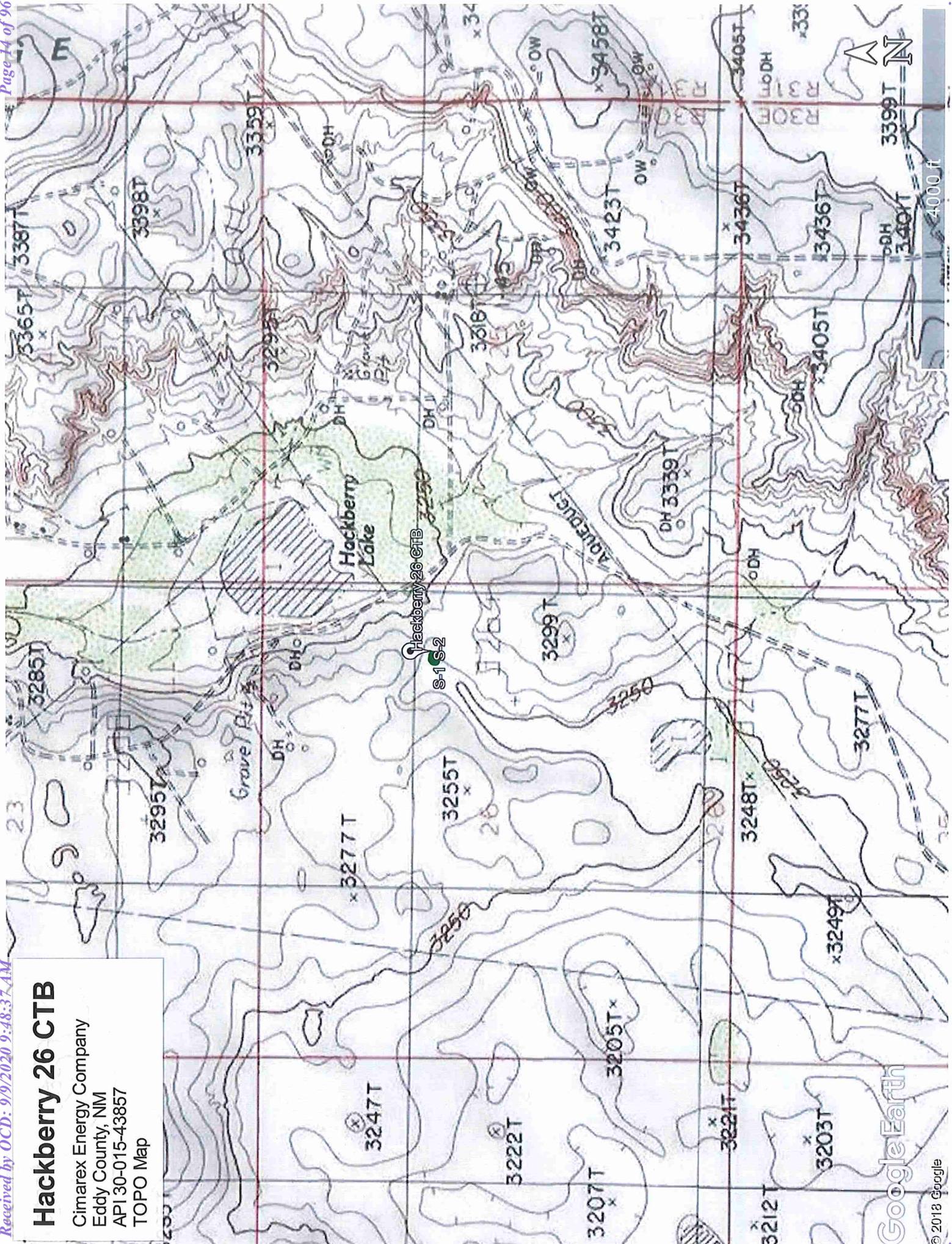
Legend

-  .5' Excavated Area
-  1' Excavation
-  Sample Positions
-  High Pressure Line



Hackberry 26 CTB

Cimarex Energy Company
Eddy County, NM
API 30-015-43857
TOPO Map



Hackberry 26 CTB

Cimarex Energy Company
Eddy County, NM
API 30-015-43857
Area Map



Hackberry 26 CTB

Cimarex Energy Company
Eddy County, NM
API 30-01543857
Karst Map

Legend

-  Hackberry 26 CTB
-  High
-  Low
-  Medium

Hackberry 26 CTB
S-1 S-2



1 mi



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00722 POD2	CP	ED	ED	2	1	1	25	19S	30E	600276	3611620*	727	350	65	285
CP 00357 POD2	CP	ED	ED	4	3	1	24	19S	30E	600265	3612627*	1603	630		
CP 00828 POD1	CP	LE	LE		1	1	35	19S	30E	598585	3609900*	1684	90		
CP 00357 POD1	CP	ED	ED	4	4	1	24	19S	30E	600667	3612631*	1774	630		
CP 00827 POD1	CP	LE	LE		3	3	35	19S	30E	598596	3608694*	2677	100		
CP 00873 POD1	CP	LE	LE		1	1	19	19S	31E	601772	3613147*	2865	340	180	160
CP 00822 POD1	CP	LE	LE		4	4	15	19S	30E	598148	3613516*	2902	90		

Average Depth to Water: 122 feet

Minimum Depth: 65 feet

Maximum Depth: 180 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 599762.762

Northing (Y): 3611104.149

Radius: 3000

*UTM location was derived from PLSS - see Help

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

8/22/19 11:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54
Elevation: 2,700 to 5,500 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Interdunes, dunes, plains
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand
H2 - 13 to 36 inches: fine sandy loam
H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
 (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Loamy Sand (R042XC003NM)

Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Hydric soil rating: No

Minor Components

Wink

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Berino

Percent of map unit:

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 14, Sep 12, 2018

National Flood Hazard Layer FIRMette



32°38'14.05"N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.



103°55'52.58"W

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone I*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levees. See Notes. *Zone X*
- Area with Flood Risk due to Levees *Zone D*

OTHER AREAS

- Area of Minimal Flood Hazard *Zone X*
- Effective LOMIRs
- Area of Undetermined Flood Hazard *Zone*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/22/2019 at 3:34:56 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRMette panel number, and FIRMette effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPENDIX III

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Cimarex Energy	OGRID 215099
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # (assigned by OCD)
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

Location of Release Source

Latitude 32.6360706 _____ Longitude -103.9375763 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hackberry 26 Fed Com 1H	Site Type production battery
Date Release Discovered 5/6/2019	API# (if applicable) 30-015-46856

Unit Letter	Section	Township	Range	County
A	26	19S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Oil hauler overfilled tank on truck while loading. Human error.

Incident ID	NVV2002839011
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Christine Alderman Title: ESH Supervisor
 Signature: Christine Alderman Date: 1-15-20
 email: caalderman@cimarex.com Telephone: 432-853-7059

OCD Only

Received by: Victoria Venegas Date: 01/15/2020

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

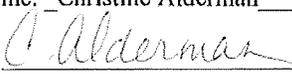
Signature: [Signature] Date: 03/16/2020

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Christine Alderman</u> Title: <u>ESH Supervisor</u> Signature: <u></u> Date: <u>05/07/2019</u> email: <u>calderman@cimarex.com</u> Telephone: <u>432-853-7059</u>
OCD Only Received by: _____ Date: _____

Incident ID	Nvv2002839011
District RP	
Facility ID	30-015-43856
Application ID	

Closure

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

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

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

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

Printed Name: Rebecca S. Pons Title: Project Manager

Signature: _____ Date: 07/24/2020

email: Rpons@talonlpe.com Telephone: 575-441-0980

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



APPENDIX V

LABORATORY DATA



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

August 08, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 26 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/07/19 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 1 0 (H902714-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17		
DRO >C10-C28*	102	10.0	08/07/2019	ND	210	105	200	0.0872		
EXT DRO >C28-C36	129	10.0	08/07/2019	ND						

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 74.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 1 1 (H902714-02)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500Cl-B, 48.0, 16.0, 08/08/2019, ND, 400, 100, 400, 0.00.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 1 2 (H902714-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17		
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872		
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND						

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 2 0 (H902714-04)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 80.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 2 1 (H902714-05)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/08/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17		
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872		
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND						

Surrogate: 1-Chlorooctane 79.4 % 41-142
 Surrogate: 1-Chlorooctadecane 83.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 2 2 (H902714-06)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 81.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 3 0 (H902714-07)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PII) 112 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 138 % 41-142

Surrogate: 1-Chlorooctadecane 417 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 3 1 (H902714-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 3 2 (H902714-09)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	30.3	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 4 0 (H902714-10)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35			
DRO >C10-C28*	5920	50.0	08/08/2019	ND	200	100	200	0.868			
EXT DRO >C28-C36	1120	50.0	08/08/2019	ND							

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 257 % 37.6-147

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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 4 1 (H902714-11)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	24.1	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 68.9 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 4 2 (H902714-12)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 71.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147

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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 5 0 (H902714-13)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35			
DRO >C10-C28*	2120	50.0	08/08/2019	ND	200	100	200	0.868			
EXT DRO >C28-C36	772	50.0	08/08/2019	ND							

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 167 % 37.6-147

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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 5 1 (H902714-14)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	110	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	28.6	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 5 2 (H902714-15)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	17.8	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 80.1 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019
Reported: 08/08/2019
Project Name: HACKBERRY 26 BATTERY
Project Number: 701901.088.01
Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/07/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 6 0 (H902714-16)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 73.3-129

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 6 1 (H902714-17)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02		
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85		
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82		
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27		
Total BTEX	<0.300	0.300	08/08/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 78.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 6 2 (H902714-18)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500CI-B

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 79.4 % 37.6-147

Cardinal Laboratories * = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses.

Signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 7 0 (H902714-19)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 73.3-129

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride with result 160.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 7 1 (H902714-20)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 73.3-129

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 73.1 % 41-142

Surrogate: 1-Chlorooctadecane 75.9 % 37.6-147

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 7 2 (H902714-21)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500CI-B, 16.0, 16.0, 08/08/2019, ND, 400, 100, 400, 3.92.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

Cardinal Laboratories

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 8 0 (H902714-22)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	25.4	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	12.9	10.0	08/08/2019	ND					

Surrogate: 1-Chlorooctane 54.5 % 41-142

Surrogate: 1-Chlorooctadecane 60.6 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 8 1 (H902714-23)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19		
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195		
Total BTEX	<0.300	0.300	08/07/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/08/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35		
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868		
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND						

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 78.4 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/07/2019 Sampling Date: 08/07/2019
Reported: 08/08/2019 Sampling Type: Soil
Project Name: HACKBERRY 26 BATTERY Sampling Condition: ** (See Notes)
Project Number: 701901.088.01 Sample Received By: Tamara Oldaker
Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 8 2 (H902714-24)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

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

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500Cl-B, 32.0, 16.0, 08/08/2019, ND, 400, 100, 400, 3.92.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

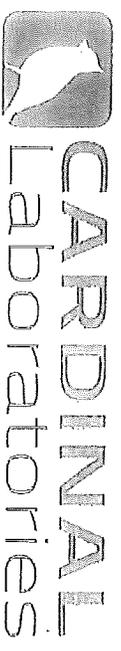
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LP P.O. #: 7160
 Project Manager: Cris Torres Company: Talon
 Address: 408 W. Texas Attn: _____
 City: Artesia State: NM Zip: 88210
 Phone #: 631-6977 Fax #: _____
 Project #: 701901.088.01 Project Owner: Cimarex City: _____
 Project Location: Hickory 26 Battery State: _____ Zip: _____
 Sampler Name: C Torres Phone #: _____ Fax #: _____

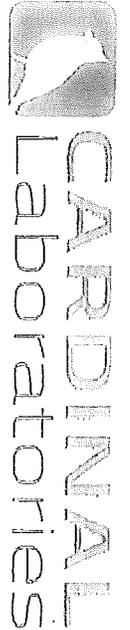
Lab I.D.	Sample I.D.	(G) GRAB OR (C) COMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			
H902714	1 S-1	0	1						8-7-19	1000	Chlorides BTEX TPH Ext.	
	2 S-1	1	1						1005			
	3 S-1	2	1						1010			
	4 S-2	0	1						1015			
	5 S-2	1	1						1020			
	6 S-2	2	1						1025			
	7 S-3	0	1						1030			
	8 S-3	1	1						1035			
	9 S-3	2	1						1040			
	10 S-4	0	1						1045			

PLEASE NOTE: Volatile and Dangers, Corrosive, highly and other volatile materials for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other applicable violation shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of time, or loss of profits incurred by client, its subsidiaries, affiliates or successors and/or of or caused to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Requisitioned By: _____ Date: 8-7-19 Received By: [Signature] Phone Result: Yes No Add'l Phone #: _____
 Requisitioned By: _____ Date: 8-7-19 Received By: [Signature] Fax Result: Yes No Add'l Fax #: _____
 Requisitioned By: _____ Date: _____ Received By: _____

Delivered By: (Circle One) 15.4i # 797 Sample Condition: Cool Intact Yes No Yes No CHECKED BY: _____
 Sampler - UPS - Bus - Other: Returned 15.4i [Signature] [Signature]

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1410n LPE P.O. #: 5112110
 Project Manager: Chris Jones Company: Telen
 Address: 408 W. Texas Attn:
 City: Artesia State: NM Zip: 88246
 Phone #: 631-6977 Fax #: Address:
 Project #: 701 906.088.01 Project Owner: Cimarex City: State: Zip:
 Project Location: Hollyhock 26 Battery Phone #: Fax #:
 Sampler Name: Chris Jones

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.			
H902714		(G)	5								8-7-19	1140	Chlorides
	21											1145	BTEX
	22											1150	TPH Ext.
	23											1155	
	24												

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Relinquished By: [Signature] Date: 8-7-19 Time: 14:25
 Received By: [Signature] Date: 8-7-19 Time: 15:42
 Sample Condition: Intact Cool Yes No

Delivered By: (Circle One) 15.42 15:42 15:58
 Sampler: UPS - Bus - Other: 15:58
 Checked By: [Signature] (Initials) 42
 Phone Results: Yes No Add'l Phone #:
 Fax Results: Yes No Add'l Fax #:
 REMARKS: Push!
Bring at straight to job from field
3083

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

April 20, 2020

Chris Jones
 Talon Artesia
 408 West Texas Ave
 Artesia, NM 88210
 TEL:
 FAX:

RE: Hackberry 26 Fed Btty

OrderNo.: 2004753

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/16/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
 Laboratory Manager
 4901 Hawkins NE
 Albuquerque, NM 87109

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 S SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 11:58:00 AM

Lab ID: 2004753-001

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	420	10		mg/Kg	1	4/16/2020 10:31:12 AM	51849
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	4/16/2020 10:31:12 AM	51849
Surr: DNOP	97.5	55.1-146		%Rec	1	4/16/2020 10:31:12 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/16/2020 10:15:37 AM	G68175
Surr: BFB	97.4	66.6-105		%Rec	5	4/16/2020 10:15:37 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 S SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:01:00 PM

Lab ID: 2004753-002

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3400	95		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Motor Oil Range Organics (MRO)	1600	480		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 10:36:04 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/16/2020 10:39:11 AM	G68175
Surr: BFB	112	66.6-105	S	%Rec	5	4/16/2020 10:39:11 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 W SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:03:00 PM

Lab ID: 2004753-003

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	5900	96		mg/Kg	10	4/16/2020 11:00:01 AM	51849
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	4/16/2020 11:00:01 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 11:00:01 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	46	20		mg/Kg	5	4/16/2020 11:02:52 AM	G68175
Surr: BFB	185	66.6-105	S	%Rec	5	4/16/2020 11:02:52 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 N SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:06:00 PM

Lab ID: 2004753-004

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	300	9.9		mg/Kg	1	4/16/2020 11:24:04 AM	51849
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	4/16/2020 11:24:04 AM	51849
Surr: DNOP	92.8	55.1-146		%Rec	1	4/16/2020 11:24:04 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	4/16/2020 11:26:26 AM	G68175
Surr: BFB	98.8	66.6-105		%Rec	5	4/16/2020 11:26:26 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 N SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:08:00 PM

Lab ID: 2004753-005

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	800	10		mg/Kg	1	4/16/2020 11:02:47 AM	51849
Motor Oil Range Organics (MRO)	540	50		mg/Kg	1	4/16/2020 11:02:47 AM	51849
Surr: DNOP	94.6	55.1-146		%Rec	1	4/16/2020 11:02:47 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/16/2020 11:49:59 AM	G68175
Surr: BFB	97.4	66.6-105		%Rec	5	4/16/2020 11:49:59 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 E SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:10:00 PM

Lab ID: 2004753-006

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	280	10		mg/Kg	1	4/16/2020 12:16:37 PM	51849
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	4/16/2020 12:16:37 PM	51849
Surr: DNOP	99.3	55.1-146		%Rec	1	4/16/2020 12:16:37 PM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	4/16/2020 12:13:44 PM	G68175
Surr: BFB	98.9	66.6-105		%Rec	5	4/16/2020 12:13:44 PM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 E SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:10:00 PM

Lab ID: 2004753-007

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	4/16/2020 10:38:48 AM	51849
Motor Oil Range Organics (MRO)	1200	500		mg/Kg	10	4/16/2020 10:38:48 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 10:38:48 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	4/16/2020 12:37:22 PM	G68175
Surr: BFB	97.9	66.6-105		%Rec	5	4/16/2020 12:37:22 PM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004753

20-Apr-20

Client: Talon Artesia
Project: Hackberry 26 Fed Btty

Sample ID: MB-51849	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51849	RunNo: 68131								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356515			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.8	55.1	146			

Sample ID: LCS-51849	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51849	RunNo: 68131								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356517			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	70	130			
Surr: DNOP	4.3		5.000		85.7	55.1	146			

Sample ID: 2004753-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1 S SW 0.5'	Batch ID: 51849	RunNo: 68138								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356926			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	550	9.9	49.70	423.5	261	47.4	136			S
Surr: DNOP	5.6		4.970		113	55.1	146			

Sample ID: 2004753-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1 S SW 0.5'	Batch ID: 51849	RunNo: 68138								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356927			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	480	9.9	49.26	423.5	124	47.4	136	13.2	43.4	
Surr: DNOP	5.2		4.926		106	55.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004753

20-Apr-20

Client: Talon Artesia
Project: Hackberry 26 Fed Btty

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G68175	RunNo: 68175								
Prep Date:	Analysis Date: 4/16/2020	SeqNo: 2357825 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	80	120			
Surr: BFB	1100		1000		113	66.6	105			S

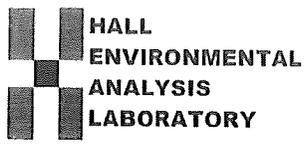
Sample ID: 2004753-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1 S SW 0.5'	Batch ID: G68175	RunNo: 68175								
Prep Date:	Analysis Date: 4/16/2020	SeqNo: 2357861 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	100	21	104.8	0	98.5	80	120			
Surr: BFB	4600		4191		111	66.6	105			S

Sample ID: 2004753-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1 S SW 0.5'	Batch ID: G68175	RunNo: 68175								
Prep Date:	Analysis Date: 4/16/2020	SeqNo: 2357862 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	100	21	104.8	0	97.2	80	120	1.31	20	
Surr: BFB	4700		4191		113	66.6	105	0	0	S

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G68175	RunNo: 68175								
Prep Date:	Analysis Date: 4/16/2020	SeqNo: 2357870 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 2004753 RcptNo: 1

Received By: Juan Rojas 4/16/2020 9:15:00 AM
Completed By: Leah Baca 4/16/2020 9:19:51 AM
Reviewed By: [Signature] 4/16/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted?
Checked by: DAD 4/16/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 20, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Hackberry 26 Fed Btty

OrderNo.: 2004753

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/16/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 S SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 11:58:00 AM

Lab ID: 2004753-001

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	420	10		mg/Kg	1	4/16/2020 10:31:12 AM	51849
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	4/16/2020 10:31:12 AM	51849
Surr: DNOP	97.5	55.1-146		%Rec	1	4/16/2020 10:31:12 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/16/2020 10:15:37 AM	G68175
Surr: BFB	97.4	66.6-105		%Rec	5	4/16/2020 10:15:37 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 S SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:01:00 PM

Lab ID: 2004753-002

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3400	95		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Motor Oil Range Organics (MRO)	1600	480		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 10:36:04 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/16/2020 10:39:11 AM	G68175
Surr: BFB	112	66.6-105	S	%Rec	5	4/16/2020 10:39:11 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 W SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:03:00 PM

Lab ID: 2004753-003

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	5900	96		mg/Kg	10	4/16/2020 11:00:01 AM	51849
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	4/16/2020 11:00:01 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 11:00:01 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	46	20		mg/Kg	5	4/16/2020 11:02:52 AM	G68175
Surr: BFB	185	66.6-105	S	%Rec	5	4/16/2020 11:02:52 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 N SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:06:00 PM

Lab ID: 2004753-004

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	300	9.9		mg/Kg	1	4/16/2020 11:24:04 AM	51849
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	4/16/2020 11:24:04 AM	51849
Surr: DNOP	92.8	55.1-146		%Rec	1	4/16/2020 11:24:04 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	4/16/2020 11:26:26 AM	G68175
Surr: BFB	98.8	66.6-105		%Rec	5	4/16/2020 11:26:26 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-5 N SW 0.5'
Project: Hackberry 26 Fed Btty **Collection Date:** 4/15/2020 12:08:00 PM
Lab ID: 2004753-005 **Matrix:** SOIL **Received Date:** 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	800	10		mg/Kg	1	4/16/2020 11:02:47 AM	51849
Motor Oil Range Organics (MRO)	540	50		mg/Kg	1	4/16/2020 11:02:47 AM	51849
Surr: DNOP	94.6	55.1-146		%Rec	1	4/16/2020 11:02:47 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/16/2020 11:49:59 AM	G68175
Surr: BFB	97.4	66.6-105		%Rec	5	4/16/2020 11:49:59 AM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2004753

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 E SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:10:00 PM

Lab ID: 2004753-006

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	280	10		mg/Kg	1	4/16/2020 12:16:37 PM	51849
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	4/16/2020 12:16:37 PM	51849
Surr: DNOP	99.3	55.1-146		%Rec	1	4/16/2020 12:16:37 PM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	4/16/2020 12:13:44 PM	G68175
Surr: BFB	98.9	66.6-105		%Rec	5	4/16/2020 12:13:44 PM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 E SW 0.5'

Project: Hackberry 26 Fed Btty

Collection Date: 4/15/2020 12:10:00 PM

Lab ID: 2004753-007

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	4/16/2020 10:38:48 AM	51849
Motor Oil Range Organics (MRO)	1200	500		mg/Kg	10	4/16/2020 10:38:48 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 10:38:48 AM	51849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	4/16/2020 12:37:22 PM	G68175
Surr: BFB	97.9	66.6-105		%Rec	5	4/16/2020 12:37:22 PM	G68175

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004753

20-Apr-20

Client: Talon Artesia
Project: Hackberry 26 Fed Btty

Sample ID: MB-51849	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51849	RunNo: 68131								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356515	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.8	55.1	146			

Sample ID: LCS-51849	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51849	RunNo: 68131								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356517	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	70	130			
Surr: DNOP	4.3		5.000		85.7	55.1	146			

Sample ID: 2004753-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1 S SW 0.5'	Batch ID: 51849	RunNo: 68138								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356926	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	550	9.9	49.70	423.5	261	47.4	136			S
Surr: DNOP	5.6		4.970		113	55.1	146			

Sample ID: 2004753-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1 S SW 0.5'	Batch ID: 51849	RunNo: 68138								
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356927	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	480	9.9	49.26	423.5	124	47.4	136	13.2	43.4	
Surr: DNOP	5.2		4.926		106	55.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004753

20-Apr-20

Client: Talon Artesia
Project: Hackberry 26 Fed Btty

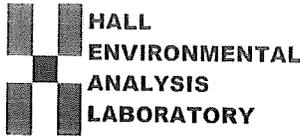
Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G68175		RunNo: 68175							
Prep Date:	Analysis Date: 4/16/2020		SeqNo: 2357825		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	80	120			
Surr: BFB	1100		1000		113	66.6	105			S

Sample ID: 2004753-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1 S SW 0.5'	Batch ID: G68175		RunNo: 68175							
Prep Date:	Analysis Date: 4/16/2020		SeqNo: 2357861		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	100	21	104.8	0	98.5	80	120			
Surr: BFB	4600		4191		111	66.6	105			S

Sample ID: 2004753-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1 S SW 0.5'	Batch ID: G68175		RunNo: 68175							
Prep Date:	Analysis Date: 4/16/2020		SeqNo: 2357862		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	100	21	104.8	0	97.2	80	120	1.31	20	
Surr: BFB	4700		4191		113	66.6	105	0	0	S

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G68175		RunNo: 68175							
Prep Date:	Analysis Date: 4/16/2020		SeqNo: 2357870		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical Quantitative Limit
 - S % Recovery outside of range due to dilution or matrix
 - B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - P Sample pH Not In Range
 - RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 2004753 RcptNo: 1

Received By: Juan Rojas 4/16/2020 9:15:00 AM
Completed By: Leah Baca 4/16/2020 9:19:51 AM
Reviewed By: [Signature] 4/16/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [] Adjusted?
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []
Checked by: DAD 4/16/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date:
By Whom: Via: [] eMail [] Phone [] Fax [] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: Talon LPE
 408 W Texas St
 Artesia, NIM 88210

Phone #: _____
 email or Fax#: (575) 746-8905
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time:
 Standard Rush Same day
 Project Name:
 Hackberry 26 Fed BTT
 Project #:
 701901.088.01

Project Manager:
 Chris Jones
 Sampler: Brandon Sinclair
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 0.9 + 0.2 = 1.1

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4-15-2011	11:58	SOIL	S-1 S SW 0.5'	4 oz jar	Ice	-001
	12:01		S-2 S SW 0.5'			-002
	12:03		S-3 W SW 0.5'			-003
	12:06		S-4 N SW 0.5'			-004
	12:08		S-5 N SW 0.5'			-005
	12:10		S-6 E SW 0.5'			-006
	12:12		S-7 E SW 0.5'			-007

Relinquished by: _____ Date: 4/15 Time: 1400
 Relinquished by: _____ Date: 4/15 Time: 1945
 Received by: _____ Date: 4/15 Time: 1945
 Received by: _____ Date: 4/16/70 Time: 9:15



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Please cc the following via email:
 Daddkins@talonpe.com
 Rpons@talonpe.com
 b5inclair@talonpe.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 13, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Hackberry 26 Battery

OrderNo.: 2005438

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/12/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 S SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:08:00 PM

Lab ID: 2005438-001

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/12/2020 6:34:54 PM	G68840
Surr: BFB	93.4	70-130		%Rec	1	5/12/2020 6:34:54 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	5/12/2020 11:09:40 AM	52406
Motor Oil Range Organics (MRO)	590	500		mg/Kg	10	5/12/2020 11:09:40 AM	52406
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 11:09:40 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 S SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:11:00 PM

Lab ID: 2005438-002

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	4.0	3.9		mg/Kg	1	5/12/2020 4:40:32 PM	G68840
Surr: BFB	103	70-130		%Rec	1	5/12/2020 4:40:32 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12000	490		mg/Kg	50	5/12/2020 11:34:01 AM	52406
Motor Oil Range Organics (MRO)	5900	2500		mg/Kg	50	5/12/2020 11:34:01 AM	52406
Surr: DNOP	0	55.1-146	S	%Rec	50	5/12/2020 11:34:01 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 W SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:14:00 PM

Lab ID: 2005438-003

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/12/2020 8:00:56 PM	G68840
Surr: BFB	93.0	70-130		%Rec	1	5/12/2020 8:00:56 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	170	9.8		mg/Kg	1	5/12/2020 11:11:28 AM	52406
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	5/12/2020 11:11:28 AM	52406
Surr: DNOP	101	55.1-146		%Rec	1	5/12/2020 11:11:28 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 N SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:18:00 PM

Lab ID: 2005438-004

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/12/2020 8:29:29 PM	G68840
Surr: BFB	93.5	70-130		%Rec	1	5/12/2020 8:29:29 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	18	9.7		mg/Kg	1	5/12/2020 11:35:49 AM	52406
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/12/2020 11:35:49 AM	52406
Surr: DNOP	94.0	55.1-146		%Rec	1	5/12/2020 11:35:49 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 N SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:21:00 PM

Lab ID: 2005438-005

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 8:57:57 PM	G68840
Surr: BFB	95.1	70-130		%Rec	1	5/12/2020 8:57:57 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	5/12/2020 11:59:56 AM	52406
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	5/12/2020 11:59:56 AM	52406
Surr: DNOP	94.2	55.1-146		%Rec	1	5/12/2020 11:59:56 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 E SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:24:00 PM

Lab ID: 2005438-006

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/12/2020 5:37:38 PM	G68840
Surr: BFB	91.9	70-130		%Rec	1	5/12/2020 5:37:38 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	510	87		mg/Kg	10	5/12/2020 11:58:36 AM	52406
Motor Oil Range Organics (MRO)	770	440		mg/Kg	10	5/12/2020 11:58:36 AM	52406
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 11:58:36 AM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005438**

Date Reported: **5/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 E SW 0.5'

Project: Hackberry 26 Battery

Collection Date: 5/8/2020 2:28:00 PM

Lab ID: 2005438-007

Matrix: MEOH (SOIL) **Received Date:** 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	5/12/2020 9:26:52 PM	G68840
Surr: BFB	93.5	70-130		%Rec	1	5/12/2020 9:26:52 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	5/12/2020 12:24:11 PM	52406
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	5/12/2020 12:24:11 PM	52406
Surr: DNOP	94.1	55.1-146		%Rec	1	5/12/2020 12:24:11 PM	52406

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005438

13-May-20

Client: Talon Artesia
Project: Hackberry 26 Battery

Sample ID: LCS-52406	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52406	RunNo: 68810								
Prep Date: 5/12/2020	Analysis Date: 5/12/2020	SeqNo: 2381390	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.9	70	130			
Surr: DNOP	4.0		5.000		79.8	55.1	146			

Sample ID: MB-52406	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52406	RunNo: 68810								
Prep Date: 5/12/2020	Analysis Date: 5/12/2020	SeqNo: 2381391	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.4	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

WO#: 2005438

Hall Environmental Analysis Laboratory, Inc.

13-May-20

Client: Talon Artesia
Project: Hackberry 26 Battery

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G68840		RunNo: 68840							
Prep Date:	Analysis Date: 5/12/2020		SeqNo: 2382824		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	460		500.0		92.4	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: G68840		RunNo: 68840							
Prep Date:	Analysis Date: 5/12/2020		SeqNo: 2382825		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.8	70	130			
Surr: BFB	480		500.0		95.5	70	130			

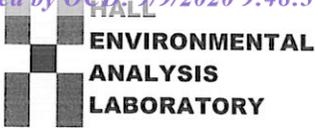
Sample ID: 2005438-001ams	SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-1 S SW 0.5'	Batch ID: G68840		RunNo: 68840							
Prep Date:	Analysis Date: 5/12/2020		SeqNo: 2382831		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.32	0	102	70	130			
Surr: BFB	440		466.4		94.5	70	130			

Sample ID: 2005438-001amsd	SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-1 S SW 0.5'	Batch ID: G68840		RunNo: 68840							
Prep Date:	Analysis Date: 5/12/2020		SeqNo: 2382832		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.32	0	97.8	70	130	4.40	20	
Surr: BFB	450		466.4		95.8	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **TALON ARTESIA** Work Order Number: **2005438** RcptNo: 1

Received By: **Isaiah Ortiz** 5/12/2020 9:20:00 AM

Completed By: **Desiree Dominguez** 5/12/2020 9:22:42 AM

Reviewed By: **JR 5/12/20**

I-Ox
DR

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present
- 2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
- 10. Were any sample containers received broken? Yes No
- 11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(≤2 or >12 unless noted)
Adjusted? _____
Checked by: *EM 5/12/20*

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			
2	1.2	Good	Not Present			

Chain-of-Custody Record

Client: Talon LPE
 408 W Texas St
 Mailing Address: Artesia, NM 88210
 Phone #: _____
 email or Fax#: (575) 746-8905
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time: ~~3 days~~
 Standard Rush 24-hr
 Project Name: Hackberry 26 Battery
 Project #: 701901.088.01
 Project Manager: Chris Jones
 Sampler: Brandon Sinclair
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 12-0 (C) 12.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	(FPH) 8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5-8-20	14:08	soil	S-1 S SW 0.5'	4.02 jar	ice	-001										
	14:11		S-2 S SW 0.5'			-002										
	14:14		S-3 W SW 0.5'			-003										
	14:18		S-4 N SW 0.5'			-004										
	14:21		S-5 N SW 0.5'			-005										
	14:24		S-6 E SW 0.5'			-006										
	14:28		S-7 E SW 0.5'			-007										

Received by: *[Signature]* Date: 5/11/20 Time: 1200
 Relinquished by: *[Signature]*
 Received by: *[Signature]* Date: 5/12/20 Time: 0900
 Relinquished by: *[Signature]*

Remarks: Please cc the following via email:
 Dadkins@talonpe.com
 Rpons@talonpe.com
 b.s.inclair@talonpe.com
 pg 1 of 1

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Analytical Report

Lab Order **2007003**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 & S3 SW Composite

Project: Hackberry 26 CTB 1

Collection Date: 6/30/2020 1:00:00 PM

Lab ID: 2007003-001

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	11	10		mg/Kg	1	7/1/2020 3:49:21 PM	53449
Motor Oil Range Organics (MRO)	61	51		mg/Kg	1	7/1/2020 3:49:21 PM	53449
Surr: DNOP	99.5	55.1-146		%Rec	1	7/1/2020 3:49:21 PM	53449
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/1/2020 3:13:33 PM	G70053
Surr: BFB	98.6	66.6-105		%Rec	1	7/1/2020 3:13:33 PM	G70053

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



APPENDIX VI

DISPOSAL T OF ~~Ø~~ ØÙVÙ

Approved by Margaret Ruiz on 5/14/2020 4:15 PM

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

TALON

NON-HAZARDOUS WASTE MANIFEST NO **136405** 1. PAGE ___ OF ___ 2. TRAILER NO. **1201**

G E N E R A T O R	3. COMPANY NAME Talon LPE / ERTS		4. ADDRESS 821 N Bivins St.		5. PICK-UP DATE 4/14/2020	
	PHONE NO. (575) 441-4835		CITY STATE ZIP Amarillo TX 791407		6. TNRCC I.D. NO.	
N E W M E X I C O	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS	9. TOTAL
	a. Non-Regulated, Non Hazardous Waste				No.	QUANTITY
	b.				Type	10. UNIT
	c.					Wt/Vol.
R E C E I V E R	d. WT: 39,540					11. TEXAS
	12. COMMENTS OR SPECIAL INSTRUCTIONS: HACKBERRY 1 H job# 701901.088.01				13. WASTE PROFILE NO.	
T R A N S P O R T E R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.	
O F F I C E	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
T R A N S P O R T E R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: TALON, LPE			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: DAVID ADKINS			IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE: (575) 441-4835			EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME John Moore			PRINTED/TYPED NAME			
SIGNATURE John Moore			SIGNATURE			
DATE 4/14/2020			DATE			
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE Santos Gonzalez			CELL NO.		DATE 4/14/2020	TIME 12:30

Approved by Margaret Ruiz on 5/14/2020 4:18 PM

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

TALON

NON-HAZARDOUS WASTE MANIFEST

NO 136406

1. PAGE ___ OF ___

2. TRAILER NO. 1209

G E N E R A T O R	3. COMPANY NAME Talon LPE / ERTS		921 N Brins St.		DATE 4/14/2020	
	PHONE NO. (575) 441-4835	CITY Amarillo	STATE TX	ZIP 791407	6. TNRCC I.D. NO.	
N E W M E X I C O	7. NAME OR DESCRIPTION OF WASTE SHIPPED: a. Non-Regulated, Non Hazardous Waste				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	b.				10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	c.					
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS: HACKBERRY 1 H job# 701901.088.01				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
O F F I C E	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
T R A N S P O R T E R S	PRINTED/TYPED NAME			SIGNATURE		DATE
	16. TRANSPORTER (1) NAME: TALON, LPE TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT DAVID ADKINS EMERGENCY PHONE: (575) 441-4835			17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
D I S P O S I T O R Y	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME MIKE CARTER SIGNATURE Mike Carter DATE 4/14/2020			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE		
	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
L E A L A N D	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				AUTHORIZED SIGNATURE Santos Gonzalez	
		CELL NO.		DATE 4/14/2020		TIME 05 1.