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Remediation and Closure Report

Todd 26 I Federal #20
Eddy County, NM
API # 30-015-27199

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, NM 88210

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

April 20, 2020

Mr. Jim Amos
Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

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

Subject: **Remediation and Closure Report**
Todd 26 I Federal #20
Eddy County, NM
API # 30-015-42572

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remedial actions, and closure request are presented herein.

Site Information

The Todd 26 I Federal #20 is located approximately thirty (30) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter I, Section 26, Township 23 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2736316 North and -103.7421980 West. A Site Map is 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 Maljamar and palomas fine sand, 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is eloian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well-drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 430-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a low potential Karst area.

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	430 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within an unstable area |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within a 100-year floodplain |

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet, based upon the site characterization for this project the clean up criteria is as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 February 13, 2020, a release occurred from the spill pot at the wellhead when it failed to shut down the well releasing 4.78 barrels (bbls) of oil and 10 bbls of produced water. The spill area remained on location. Vac trucks were dispatched to the site to recover the spilled fluids and were able to recover 3 bbls of oil and 9 bbls of produced water. Site maps are presented in [Appendix I](#).

Talon mobilized personnel and equipment to the site to begin assessment and remediation activities. Following site assessment activities (2-21-20 data table), the impacted area was excavated utilizing a backhoe. Confirmation samples were collected from the sidewalls of the excavation to ensure that all horizontal environmental impacts had been

Soil Sampling

2-21-20 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	20,000 mg/kg
S-1	2/21/2020	0	189	3.54	4270	12000	2210	18480	10300
		0.5	13.4	0.11	313	1560	306	2179	6560
		1	ND	ND	ND	64.8	ND	64.8	720
		2	ND	ND	ND	103	13.5	116.5	224
S-2		0	28.4	ND	955	9220	1770	11945	3480
		0.5	0.79	ND	16.5	230	34.5	281	1250
		1	0.361	ND	ND	145	22.6	167.6	528
		2	ND	ND	ND	89.6	13.8	103.4	464
S-3		0	38.1	ND	1510	17900	3400	22810	96
		0.5	5.36	ND	310	6100	1260	7670	80
		1	ND	ND	ND	ND	ND	ND	32
		2	ND	ND	ND	88.4	ND	88.4	16
S-4		0	29	ND	719	6690	1210	8619	18400
		0.5	ND	ND	ND	112	14.1	126.1	848
		1	ND	ND	ND	217	26.6	243.6	544
		2	ND	ND	11	267	29	307	928
S-5		0	3.1	ND	204	6940	1390	8534	5920
		0.5	ND	ND	11	522	80.6	613.6	1870
		1	ND	ND	ND	89.4	10.3	99.7	672
S-6		0	43.7	ND	1470	14300	2870	18640	23200
		0.5	1	ND	24.3	436	71.5	531.8	3200
		1	ND	ND	ND	148	18	166	496
		2	1.03	ND	14.2	263	31.5	308.7	1410

ND-Analyte Not Detected

3-20-20 Confirmation Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg
S-5 N. Sidewall	3/20/2020	0	--	--	ND	ND	ND	ND
S-5 S. Sidewall		0	--	--	ND	ND	ND	ND
S-4 N. Sidewall		0	--	--	ND	ND	ND	ND
S-4 S. Sidewall		0	--	--	ND	ND	ND	ND
S-6 W. Sidewall		0	--	--	ND	ND	ND	ND
S-1 N. Sidewall		0	--	--	ND	1630	451	2081
S-3 E. Sidewall		0	--	--	ND	ND	ND	ND
S-3 S. Sidewall		0	--	--	ND	ND	ND	ND

ND-Analyte Not Detected, -- Analyte Not Tested

3-25-20 Confirmation Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg
S-1 N. Sidewall	3/25/2020	0	--	--	ND	50.2	23.2	73.4

ND-Analyte Not Detected, -- Analyte Not Tested

See [Appendix V](#) for the complete report of laboratory results.

Remedial Actions

- The impacted areas in the vicinity of S-1, S-2, S-4, S-5, and S-6 were excavated to a depth of 0.5-feet BGS. Laboratory analytical results from confirmation sidewall composite soil samples indicated that remaining concentrations were below NMOCD Closure Criteria.
- The impacted area in the vicinity of S-3 was excavated to a depth of 1.0-feet BGS. Laboratory analytical results from confirmation sidewall composite soil samples indicated that remaining concentrations were below NMOCD Closure Criteria.
- The excavated soil was transported to Lea Land, LLC, a NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- Final C-141 is attached in [Appendix IV](#).

Closure


Based on this site characterization, remedial actions and analytical results, we request that no further actions be required and that closure with regard to the attached 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


Chris Jones
Environmental Project Manager


David J. Adkins
District Manager

Attachments:

- Appendix I Site Maps, Karst Map, TOPO Map & Locator Map
- Appendix II Groundwater Data, FEMA Flood Zone, Soil Survey
- Appendix III Initial & Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Results



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATION MAP

Todd 26 I Fed 20

Devon Energy Production Company
Eddy County, NM
API 30-015-27199
Site Map

Legend

- Impact Area
- Samples

Google Earth

© 2020 Google

60 ft

N



Todd 26 I Fed #20

Devon Energy Production Company
API 30-015-27199
Eddy County, NM
Karst Map

Legend

	High
	Low
	Medium

Google Earth

© 2020 Google

Todd 26 I Fed #20

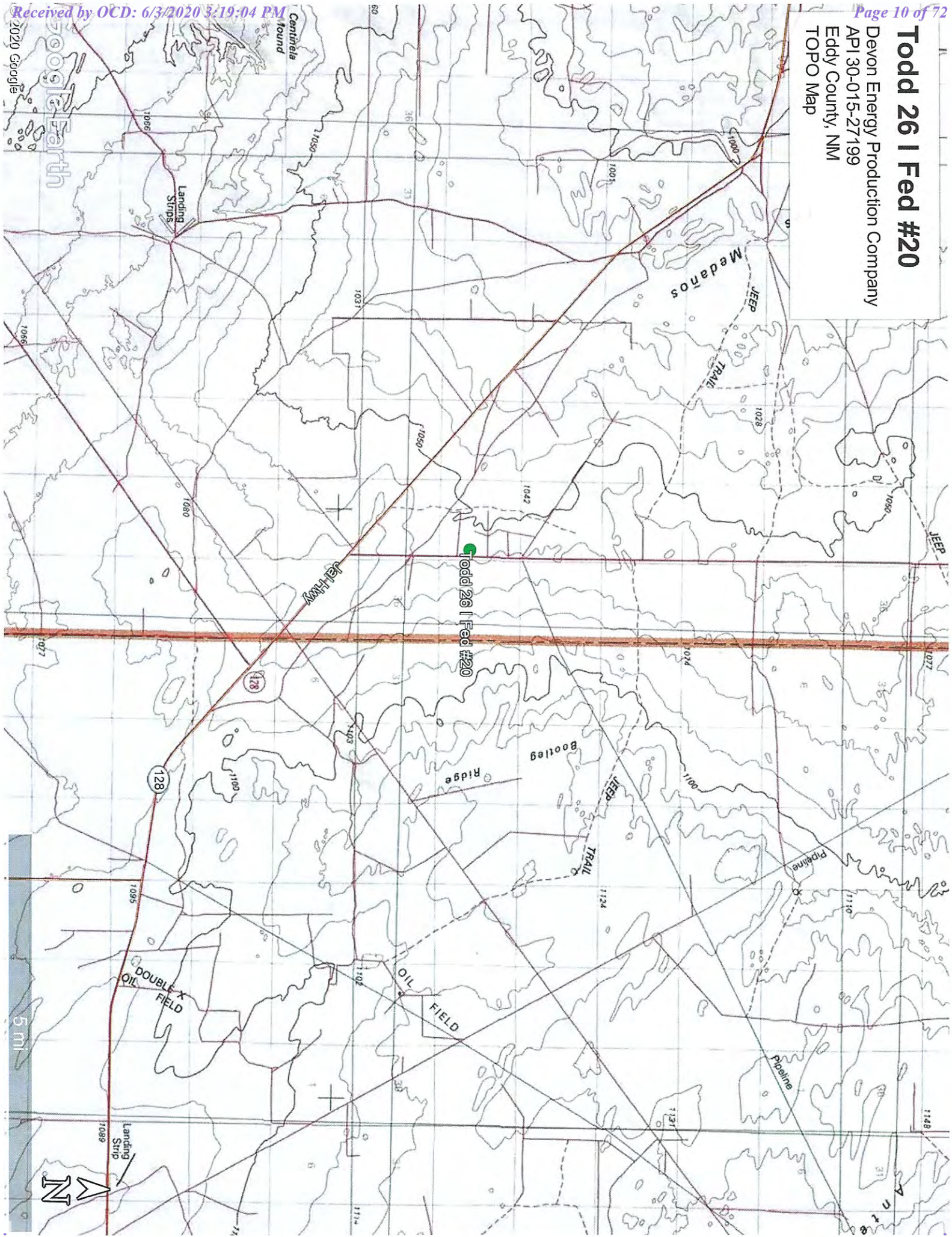
del Hwy

128

5 mi



Todd 26 | Fed #20
Devon Energy Production Company
API 30-015-27199
Eddy County, NM
TOPO Map

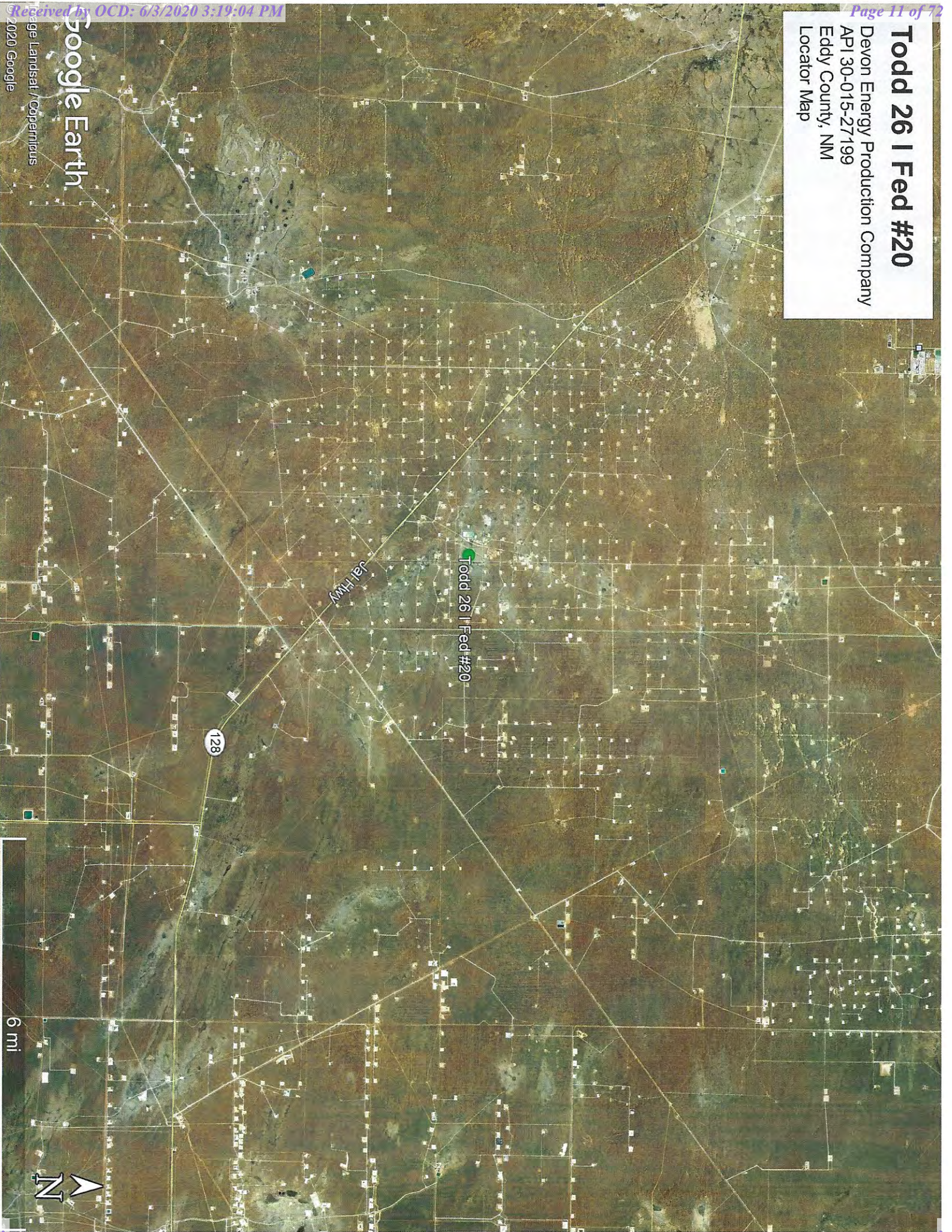


Todd 26 I Fed #20

Devon Energy Production Company
API 30-015-27199
Eddy County, NM
Locator Map

Received by OCD: 6/3/2020 3:19:04 PM

Google Earth
Image Landsat / Copernicus
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APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

2/17/2020

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin...



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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	WaterColumn
C 02258	C	ED		3	2	26	23S	31E		618055	3571853*	562	662		
C 02348	C	ED		1	4	3	26	23S	31E	617648	3571068	899	700	430	270
C 02405	CUB	ED		4	1	02	24S	31E		617690	3568631*	2931	275	160	115

Average Depth to Water: 295 feet

Minimum Depth: 160 feet

Maximum Depth: 430 feet

Record Count: 3

Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 618456.944

Northing (Y): 3571460.111

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.

2/17/20 10:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded—
Eddy Area, New Mexico

Eddy Area, New Mexico

SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w5y
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 45 percent
Wink and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

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

Typical profile

H1 - 0 to 19 inches: fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 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: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7e

Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded—
Eddy Area, New Mexico

Hydrologic Soil Group: D
Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Description of Wink

Setting

Landform: Depressions, swales
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: stratified gravelly variable

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: 30 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: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Sandy (R042XC004NM)
Hydric soil rating: No

Minor Components

Dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



22°16'40.29"N

Page 16 of 72

Legend

SEE THIS 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

0.2% Annual Chance Flood Hazard, Area of 1% Annual Chance Flood with average depth less than one foot, or with draining areas of less than one square mile Zone Z

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee, See Notes, Zone X

OTHER AREAS OF FLOOD HAZARD

	Area with Flood Risk due to Levee Zone D
--	--

OTHER AREAS

	NO SCREEN
	Area of Minimal Flood Hazard Zone X
	Effective LOMRs
	Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES

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

	20.2	Cross Sections with 1% Annual Chance
	17.5	Water Surface Elevation
		Coastal Transsect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transsect 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 2/17/2020 at 12:09:45 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, FIRM panel number, and FIRM effective date. Map images for unmapped and unmapped areas cannot be used for regulatory purposes.

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

Received by OCD: 6/3/2020 3:19:04 PM

0 250 500 1,000 1,500 2,000 Feet 1:6,000

32°16'9.87"N

103°44'13.19"W



APPENDIX III

INITIAL C-141

&

FINAL 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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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

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 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: _____	Title: _____
Signature: <u>Kendra DeHoyos</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	NRM2005560993
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>430</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal 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
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005560993
District RP	
Facility ID	
Application ID	

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: Chris Jones

Title: Project Manager

Signature: 

Date: 4-2-20

email: cjones@talonlpe.com

Telephone: 575-748-8768

OCD Only

Received by: Cristina Eads

Date: 06/03/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005560993
District RP	
Facility ID	
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: Chris Jones

Title: Project Manager

Signature: Date: 4-2-20email: cjones@talonlpe.com

Telephone: 575-748-8768

OCD OnlyReceived by: Cristina EadsDate: 06/03/2020

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: 08/05/2020Printed Name: Cristina EadsTitle: Environmental Specialist



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation



Photographic Documentation

Completed



Photographic Documentation





APPENDIX V

LABORATORY DATA

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

March 03, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 261 FED #20

Enclosed are the results of analyses for samples received by the laboratory on 02/24/20 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S- 1 0'	H000569-01	Soil	21-Feb-20 09:37	24-Feb-20 14:05
S- 1 0.5'	H000569-02	Soil	21-Feb-20 09:42	24-Feb-20 14:05
S- 1 1'	H000569-03	Soil	21-Feb-20 09:46	24-Feb-20 14:05
S- 1 2'	H000569-04	Soil	21-Feb-20 09:50	24-Feb-20 14:05
S- 2 0'	H000569-05	Soil	21-Feb-20 09:56	24-Feb-20 14:05
S- 2 0.5'	H000569-06	Soil	21-Feb-20 10:00	24-Feb-20 14:05
S- 2 1'	H000569-07	Soil	21-Feb-20 10:10	24-Feb-20 14:05
S- 2 2'	H000569-08	Soil	21-Feb-20 10:14	24-Feb-20 14:05
S- 3 0'	H000569-09	Soil	21-Feb-20 10:29	24-Feb-20 14:05
S- 3 0.5'	H000569-10	Soil	21-Feb-20 10:33	24-Feb-20 14:05
S- 3 1'	H000569-11	Soil	21-Feb-20 10:38	24-Feb-20 14:05
S- 3 2'	H000569-12	Soil	21-Feb-20 10:41	24-Feb-20 14:05
S- 4 0'	H000569-13	Soil	21-Feb-20 10:44	24-Feb-20 14:05
S- 4 0.5'	H000569-14	Soil	21-Feb-20 10:49	24-Feb-20 14:05
S- 4 1'	H000569-15	Soil	21-Feb-20 10:55	24-Feb-20 14:05
S- 4 2'	H000569-16	Soil	21-Feb-20 11:00	24-Feb-20 14:05
S- 5 0'	H000569-17	Soil	21-Feb-20 11:04	24-Feb-20 14:05
S- 5 0.5'	H000569-18	Soil	21-Feb-20 11:10	24-Feb-20 14:05
S- 5 1'	H000569-19	Soil	21-Feb-20 11:16	24-Feb-20 14:05
S- 6 0'	H000569-21	Soil	21-Feb-20 11:30	24-Feb-20 14:05
S- 6 0.5'	H000569-22	Soil	21-Feb-20 11:35	24-Feb-20 14:05
S- 6 1'	H000569-23	Soil	21-Feb-20 11:39	24-Feb-20 14:05
S- 6 2'	H000569-24	Soil	21-Feb-20 11:44	24-Feb-20 14:05

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 1 0'

H000569-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	10300		16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	3.54		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Toluene*	44.4		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	29.8		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	111		1.50	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Total BTEX	189		3.00	mg/kg	500	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 219 % 73.3-129 0022423 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	4270		50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B	
DRO >C10-C28*	12000		50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	2210		50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 271 % 44.3-144 0022425 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 427 % 42.2-156 0022425 CK 25-Feb-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 1 0.5'
H000569-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	6560		16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	0.110		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Toluene*	2.27		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	2.21		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	8.77		0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total BTEX	13.4		0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			224 %	73.3-129		0022423	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	313		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
DRO >C10-C28*	1560		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	306		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			142 %	44.3-144		0022425	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			127 %	42.2-156		0022425	CK	25-Feb-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 1 1'

H000569-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	720	16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Toluene*	0.073	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	104 %	73.3-129	0022423	CK	25-Feb-20	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
DRO >C10-C28*	64.8	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B

Surrogate: 1-Chlorooctane	94.4 %	44.3-144	0022425	CK	25-Feb-20	8015B
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Surrogate: 1-Chlorooctadecane	103 %	42.2-156	0022425	CK	25-Feb-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 1 2'
H000569-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 0022423 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
DRO >C10-C28*	103		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	13.5		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 91.6 % 44.3-144 0022425 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 98.8 % 42.2-156 0022425 CK 25-Feb-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 2 0'

H000569-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3480	16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.500	0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B
Toluene*	2.34	0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B
Ethylbenzene*	4.71	0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B
Total Xylenes*	21.4	1.50	mg/kg	500	0022423	CK	25-Feb-20	8021B
Total BTEX	28.4	3.00	mg/kg	500	0022423	CK	25-Feb-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	152 %	73.3-129	0022423	CK	25-Feb-20	8021B
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	955	50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B
DRO >C10-C28*	9220	50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B
EXT DRO >C28-C36	1770	50.0	mg/kg	5	0022425	CK	25-Feb-20	8015B

Surrogate: 1-Chlorooctane	174 %	44.3-144	0022425	CK	25-Feb-20	8015B
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Surrogate: 1-Chlorooctadecane	312 %	42.2-156	0022425	CK	25-Feb-20	8015B
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Cardinal Laboratories

*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 2 0.5'
H000569-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	1250		16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	0.131		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	0.659		0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total BTEX	0.790		0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			124 %	73.3-129		0022423	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	16.5		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
DRO >C10-C28*	230		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	34.5		10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			99.6 %	44.3-144		0022425	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	42.2-156		0022425	CK	25-Feb-20	8015B	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 2 1'
H000569-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	528	16.0	mg/kg	4	0022507	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Ethylbenzene*	0.059	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total Xylenes*	0.302	0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total BTEX	0.361	0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	110 %	73.3-129	0022423	CK	25-Feb-20	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
DRO >C10-C28*	145	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
EXT DRO >C28-C36	22.6	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B

Surrogate: 1-Chlorooctane	95.1 %	44.3-144	0022425	CK	25-Feb-20	8015B
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Surrogate: 1-Chlorooctadecane	103 %	42.2-156	0022425	CK	25-Feb-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 2 2'
H000569-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464	16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	101 %	73.3-129	0022423	CK	25-Feb-20	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
DRO >C10-C28*	89.6	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B
EXT DRO >C28-C36	13.8	10.0	mg/kg	1	0022425	CK	25-Feb-20	8015B

Surrogate: 1-Chlorooctane	95.9 %	44.3-144	0022425	CK	25-Feb-20	8015B
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Surrogate: 1-Chlorooctadecane	103 %	42.2-156	0022425	CK	25-Feb-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 3 0'

H000569-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.500		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Toluene*	3.14		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	6.34		0.500	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	28.6		1.50	mg/kg	500	0022423	CK	25-Feb-20	8021B	
Total BTEX	38.1		3.00	mg/kg	500	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			164 %	73.3-129		0022423	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1510		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	17900		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	3400		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			228 %	44.3-144		0022426	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			530 %	42.2-156		0022426	CK	25-Feb-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 3 0.5'
H000569-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0	16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.200	0.200	mg/kg	200	0022423	CK	25-Feb-20	8021B
Toluene*	0.423	0.200	mg/kg	200	0022423	CK	25-Feb-20	8021B
Ethylbenzene*	0.876	0.200	mg/kg	200	0022423	CK	25-Feb-20	8021B
Total Xylenes*	4.06	0.600	mg/kg	200	0022423	CK	25-Feb-20	8021B
Total BTEX	5.36	1.20	mg/kg	200	0022423	CK	25-Feb-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	129 %	73.3-129	0022423	CK	25-Feb-20	8021B
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	310	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B
DRO >C10-C28*	6100	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B
EXT DRO >C28-C36	1260	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B

Surrogate: 1-Chlorooctane	175 %	44.3-144	0022426	CK	25-Feb-20	8015B
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Surrogate: 1-Chlorooctadecane	313 %	42.2-156	0022426	CK	25-Feb-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 3 1'

H000569-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 0022423 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 87.8 % 44.3-144 0022426 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 88.6 % 42.2-156 0022426 CK 25-Feb-20 8015B

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 3 2'

H000569-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022423	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022423	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 0022423 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	88.4		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 88.2 % 44.3-144 0022426 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 92.1 % 42.2-156 0022426 CK 25-Feb-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S-4 0'

H000569-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	18400	16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.200	0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	QR-03
Toluene*	3.85	0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	QM-07, QR-03
Ethylbenzene*	4.81	0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	QM-07, QR-03
Total Xylenes*	20.3	0.600	mg/kg	200	0022430	CK	25-Feb-20	8021B	QM-07, QR-03
Total BTEX	29.0	1.20	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		203 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	719	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	6690	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	QM-07
EXT DRO >C28-C36	1210	50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane		150 %	44.3-144		0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane		244 %	42.2-156		0022426	CK	25-Feb-20	8015B	

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 4 0.5'**H000569-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	848		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.3-129		0022430	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	112		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	14.1		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			89.6 %	44.3-144		0022426	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			95.3 %	42.2-156		0022426	CK	25-Feb-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 4 1'

H000569-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	544	16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B
Surrogate: 4-Bromofluorobenzene (PID)		105 %	73.3-129		0022430	CK	25-Feb-20	8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B
DRO >C10-C28*	217	10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B
EXT DRO >C28-C36	26.6	10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B
Surrogate: 1-Chlorooctane		98.6 %	44.3-144		0022426	CK	25-Feb-20	8015B
Surrogate: 1-Chlorooctadecane		99.7 %	42.2-156		0022426	CK	25-Feb-20	8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 4 2'

H000569-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	928		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	

Surrogate: <i>p</i> -Bromofluorobenzene (PID)			105 %	73.3-129		0022430	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	267		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	29.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			91.1 %	44.3-144		0022426	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			99.6 %	42.2-156		0022426	CK	25-Feb-20	8015B	
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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 5 0'

H000569-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5920		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.200		0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.200		0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	0.536		0.200	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	2.57		0.600	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Total BTEX	3.10		1.20	mg/kg	200	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			124 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	204		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	6940		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	1390		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			158 %	44.3-144		0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			257 %	42.2-156		0022426	CK	25-Feb-20	8015B	

S-06

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 5 0.5'
H000569-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1870		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129 0022430 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	522		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	80.6		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 97.8 % 44.3-144 0022426 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 102 % 42.2-156 0022426 CK 25-Feb-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 5 1'

H000569-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	672		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	89.4		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	10.3		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			93.9 %	44.3-144		0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			96.9 %	42.2-156		0022426	CK	25-Feb-20	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 6 0'

H000569-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	23200		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.500		0.500	mg/kg	500	0022430	CK	25-Feb-20	8021B	
Toluene*	5.50		0.500	mg/kg	500	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	7.22		0.500	mg/kg	500	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	31.0		1.50	mg/kg	500	0022430	CK	25-Feb-20	8021B	
Total BTEX	43.7		3.00	mg/kg	500	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			157 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1470		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	14300		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	2870		50.0	mg/kg	5	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			204 %	44.3-144		0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			415 %	42.2-156		0022426	CK	25-Feb-20	8015B	

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 6 0.5'**H000569-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3200		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	0.074		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	0.160		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	0.768		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	1.00		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129 0022430 CK 25-Feb-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	24.3		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	436		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	71.5		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane 96.8 % 44.3-144 0022426 CK 25-Feb-20 8015B

Surrogate: 1-Chlorooctadecane 98.4 % 42.2-156 0022426 CK 25-Feb-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 6 1'
H000569-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	496		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	148		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	18.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			95.9 %	44.3-144		0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			97.9 %	42.2-156		0022426	CK	25-Feb-20	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

S- 6 2'

H000569-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	1410		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	0.061		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	0.164		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	0.801		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	1.03		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		73.3-129	0022430	CK	25-Feb-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	14.2		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	263		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	31.5		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	

Surrogate: 1-Chlorooctane			94.3 %		44.3-144	0022426	CK	25-Feb-20	8015B	
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Surrogate: 1-Chlorooctadecane			96.6 %		42.2-156	0022426	CK	25-Feb-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0022507 - 1:4 DI Water**Blank (0022507-BLK1)**

Prepared & Analyzed: 25-Feb-20

Chloride	ND	16.0	mg/kg							
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LCS (0022507-BS1)

Prepared & Analyzed: 25-Feb-20

Chloride	416	16.0	mg/kg	400	104	80-120				
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LCS Dup (0022507-BSD1)

Prepared & Analyzed: 25-Feb-20

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20		
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Batch 0022508 - 1:4 DI Water**Blank (0022508-BLK1)**

Prepared & Analyzed: 25-Feb-20

Chloride	ND	16.0	mg/kg							
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LCS (0022508-BS1)

Prepared & Analyzed: 25-Feb-20

Chloride	416	16.0	mg/kg	400	104	80-120				
----------	-----	------	-------	-----	-----	--------	--	--	--	--

LCS Dup (0022508-BSD1)

Prepared & Analyzed: 25-Feb-20

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20		
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0022423 - Volatiles**Blank (0022423-BLK1)**

Prepared & Analyzed: 24-Feb-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	73.3-129			

LCS (0022423-BS1)

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

Benzene	2.02	0.050	mg/kg	2.00		101	72.2-131			
Toluene	2.03	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	68.9-126			
Total Xylenes	5.93	0.150	mg/kg	6.00		98.8	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	73.3-129			

LCS Dup (0022423-BS1)

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

Benzene	1.90	0.050	mg/kg	2.00		94.8	72.2-131	6.41	14.6	
Toluene	1.91	0.050	mg/kg	2.00		95.6	71.7-126	5.74	17.4	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	68.9-126	5.42	18.9	
Total Xylenes	5.62	0.150	mg/kg	6.00		93.6	71.4-125	5.42	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	73.3-129			

Batch 0022430 - Volatiles**Blank (0022430-BLK1)**

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

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

Batch 0022430 - Volatiles**LCS (0022430-BS1)**

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

Benzene	1.97	0.050	mg/kg	2.00		98.7	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.3	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	68.9-126			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	73.3-129			

LCS Dup (0022430-BSD1)

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

Benzene	1.98	0.050	mg/kg	2.00		99.2	72.2-131	0.557	14.6	
Toluene	1.99	0.050	mg/kg	2.00		99.7	71.7-126	0.371	17.4	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126	0.646	18.9	
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	71.4-125	0.680	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0022425 - General Prep - Organics**Blank (0022425-BLK1)**

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	44.3-144			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	42.2-156			

LCS (0022425-BS1)

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

GRO C6-C10	196	10.0	mg/kg	200		98.0	78.8-127			
DRO >C10-C28	187	10.0	mg/kg	200		93.7	80-132			
Total TPH C6-C28	383	10.0	mg/kg	400		95.9	81.3-128			
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	44.3-144			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	42.2-156			

LCS Dup (0022425-BSD1)

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

GRO C6-C10	197	10.0	mg/kg	200		98.3	78.8-127	0.290	15.1	
DRO >C10-C28	189	10.0	mg/kg	200		94.7	80-132	1.10	17.1	
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	81.3-128	0.685	15	
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	44.3-144			
Surrogate: 1-Chlorooctadecane	55.3		mg/kg	50.0		111	42.2-156			

Batch 0022426 - General Prep - Organics**Blank (0022426-BLK1)**

Prepared: 24-Feb-20 Analyzed: 25-Feb-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	44.3-144			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	42.2-156			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: TODD 261 FED #20
Project Number: 700794.319.01
Project Manager: CHRIS JONES
Fax To: (575) 745-8905

Reported:
03-Mar-20 09:28

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0022426 - General Prep - Organics										
LCS (0022426-BS1)				Prepared: 24-Feb-20 Analyzed: 25-Feb-20						
GRO C6-C10	192	10.0	mg/kg	200		96.2	78.8-127			
DRO >C10-C28	211	10.0	mg/kg	200		105	80-132			
Total TPH C6-C28	403	10.0	mg/kg	400		101	81.3-128			
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	44.3-144			
Surrogate: 1-Chlorooctadecane	57.6		mg/kg	50.0		115	42.2-156			
LCS Dup (0022426-BS1)				Prepared: 24-Feb-20 Analyzed: 25-Feb-20						
GRO C6-C10	207	10.0	mg/kg	200		104	78.8-127	7.54	15.1	
DRO >C10-C28	227	10.0	mg/kg	200		114	80-132	7.51	17.1	
Total TPH C6-C28	435	10.0	mg/kg	400		109	81.3-128	7.52	15	
Surrogate: 1-Chlorooctane	59.3		mg/kg	50.0		119	44.3-144			
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	42.2-156			

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Notes and Definitions

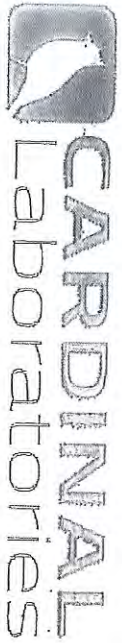
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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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 LPE		P.O. #: 700794.319.01	
Project Manager: Chris Jones		Company: Talon LPE	
Address: 408 W Texas		Attn: Chris Jones	
City: Artesia		Address:	
Phone #: 575-746-8768		State: NM Zip: 88210	
Fax #: 575-746-8768		City:	
Project #: 700794.319.01		Project Owner: Devon Energy	
Project Name: Todd 261 Fed 20		State: NM Zip: 88210	
Project Location: Eddy County		Phone #:	
Sampler Name: Brandon Similiar		Fax #:	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
#000569	1 5-1 0'		
	2 5-1 0.5'		
	3 5-1 1'		
	4 5-1 2'		
	5 5-2 0'		
	6 5-2 0.5'		
	7 5-2 1'		
	8 5-2 2'		
	9 5-3 0'		
	10 5-3 0.5'		
		MATRIX	PRESERV.
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER:	
		ACID/BASE:	
		ICE / COOL	
		OTHER:	
		DATE	TIME
		2-21-20	09:37
			09:42
			09:46
			09:50
			09:56
			10:00
			10:10
			10:14
			10:29
			10:33
		TPH EXT	
		BTEX	
		Total Chlorides	
ANALYSIS REQUEST			

PLEASE NOTE: Sampling and analysis of hazardous waste and other materials must be performed in accordance with the amount paid by the client for the analysis. All data, including those for parameters and any other cause which may be detected, must be reported to the client within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for any delay in reporting results or for any other cause which may be detected, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any or the above stated reasons or otherwise.

Relinquished By: *Brandon Similiar* Received By: *Rush*

Time: 2-24-20 Time: 11:40

Page: 2-24-20 Received By: *Rush*

Time: 1405

Delivered By: (Circle One) *39c #113*

Sampler: UPS - Bus - Other: *39c #113*

Sample Condition: *Good* ☒ Yes ☐ No ☐ Intact ☐ Yes ☐ No

CHECKED BY: *Rush*

Phone Result: ☐ Yes ☐ No ☐ No ☐ No ☐ No

Fax Result: ☐ Yes ☐ No ☐ No ☐ No ☐ No

REMARKS: *Pg 1 of 3*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager: Chris Jones

Address: 408 W Tokas

City: Artesia

Phone #: 575-746-8768

Project #: 700794.319.01

Project Location: Eddy County

Project Name: Todd 261 Fed 20

Sample Name: Random Sample

For Lab Use Only

P.O. #: 700794.319.01

Company: Talon LPE

Attn: Chris Jones

Address:

City:

State: Zip:

Phone #: Fax #:

ANALYSIS REQUEST

Lab ID	Sample ID	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH EXT	BTEX	Total Chlorides
400569	11	5-3 1'	5										2-2-20	10:38			
	12	5-3 2'												10:41			
	13	5-4 0'												10:44			
	14	5-4 0.5'												10:49			
	15	5-4 1'												10:55			
	16	5-4 2'												11:00			
	17	5-5 0'												11:04			
	18	5-5 0.5'												11:10			
	19	5-5 1'												11:16			
	20	5-5 2'												11:22			

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Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

Relinquished By:

Date: 2-24-20

Received By:

Phone Result: ☐ Yes ☐ No

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

Rush

Pg 2 of 3

101 East Marlton, Hobbs, NM 88248
(575) 393-2326 FAX (575) 393-2476

Company Name: Talon LPE		P.O. # 700744.319.01	
Project Manager: Chris Jones		Company: Talon LPE	
Address: 408 W Texas		Attn: Chris Jones	
City: Artesia		Address:	
Phone #: 575-746-8768		State: NM Zip: 88210	
Project #: 700744.319.01		Project Owner: Devon Energy	
Project Name: Todd 261 Fed 20		City:	
Project Location: Feddy County		State:	
Sampler Name: Artesia Sinclair		Zip:	
FOR LAB USE ONLY		Phone #:	
Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH EXT	BTEX	Total Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE						ICE/COOL
4000519																
21	5-6 0'		5									2-2-20	11:30			
22	5-6 0.5'												11:35			
23	5-6 1'												11:39			
24	5-6 2'												11:44			

PLEASE NOTE: Liability and Damages: Customers liability and damage exclusive remedy for any claim arising whether caused in contractor's or state's plan to the extent paid by the client for the analysis. All claims (including liability) shall be subject to the terms and conditions of the contract and any other claims whatsoever shall be deemed waived unless made in writing and received by the contractor within 90 days of the date of completion of the applicable analysis. In no event shall the contractor be liable for consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcontractors, affiliates or assignees arising out of or in connection with the performance of services hereunder by contractor, regardless of whether such claim is based upon any other theory of recovery or otherwise.

Relinquished By: *[Signature]* Received By: *[Signature]*

Date: **2-24-20** Time: **11:40**

Delivered By: *[Signature]* Received By: *[Signature]*

Date: **2-24-20** Time: **11:40**

Sampler: **UPS** **Bus** **Other** **29c** **#113**

Sample Condition: **Good** **Trace** **Yes** **No** **Yes** **No**

CHECKED BY: *[Signature]* (Initials) **VS.**

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS: **Rush**



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

March 24, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 26 1 FED #20

Enclosed are the results of analyses for samples received by the laboratory on 03/23/20 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/23/2020
Reported: 03/24/2020
Project Name: TODD 26 1 FED #20
Project Number: 700794.319.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 03/20/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: S-5 NORTH SIDEWALL (H000878-01)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
Surrogate: 1-Chlorooctane	78.0 %	44.3-144							
Surrogate: 1-Chlorooctadecane	71.9 %	42.2-156							

Sample ID: S-5 SOUTH SIDEWALL (H000878-02)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
Surrogate: 1-Chlorooctane	85.6 %	44.3-144							
Surrogate: 1-Chlorooctadecane	79.9 %	42.2-156							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/23/2020
Reported: 03/24/2020
Project Name: TODD 26 1 FED #20
Project Number: 700794.319.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 03/20/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: S-4 NORTH SIDEWALL (H000878-03)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	88.4 %	44.3-144							
<i>Surrogate: 1-Chlorooctadecane</i>									
	79.7 %	42.2-156							

Sample ID: S-4 SOUTH SIDEWALL (H000878-04)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	84.9 %	44.3-144							
<i>Surrogate: 1-Chlorooctadecane</i>									
	78.8 %	42.2-156							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/23/2020
Reported: 03/24/2020
Project Name: TODD 26 1 FED #20
Project Number: 700794.319.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 03/20/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: S-6 WEST SIDEWALL (H000878-05)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
Surrogate: 1-Chlorooctane	87.3 %	44.3-144							
Surrogate: 1-Chlorooctadecane	79.9 %	42.2-156							

Sample ID: S-1 NORTH SIDEWALL (H000878-06)

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	03/24/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	1630	10.0	03/24/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	451	10.0	03/24/2020	ND					
Surrogate: 1-Chlorooctane	89.1 %	44.3-144							
Surrogate: 1-Chlorooctadecane	130 %	42.2-156							

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/23/2020
Reported: 03/24/2020
Project Name: TODD 26 1 FED #20
Project Number: 700794.319.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 03/20/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: S-3 EAST SIDEWALL (H000878-07)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
Surrogate: 1-Chlorooctane	85.0 %	44.3-144							
Surrogate: 1-Chlorooctadecane	77.8 %	42.2-156							

Sample ID: S-3 SOUTH SIDEWALL (H000878-08)

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	03/23/2020	ND	196	98.1	200	0.552	
DRO >C10-C28*	<10.0	10.0	03/23/2020	ND	198	98.9	200	0.616	
EXT DRO >C28-C36	<10.0	10.0	03/23/2020	ND					
Surrogate: 1-Chlorooctane	85.6 %	44.3-144							
Surrogate: 1-Chlorooctadecane	79.4 %	42.2-156							

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

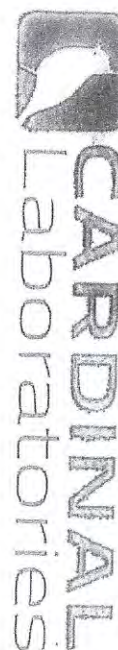
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LPE		P.O. #: 700794, 319.01
Project Manager: Chris Jones		
Address: 408 W Texas Ave		Company: Talon LPE
City: Artesia		Attn: Chris Jones
Phone #: 575-246-8768	State: NM Zip: 88210	Address:
Project #: 700794, 319.01	Project Owner: Devon Energy	City:
Project Name: Todd 261	Date: Feb 20	State: Zip:
Project Location: Eddy County		Phone #:
Sampler Name: Brandon Sinda		Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HDD0878	1 S-5 North Sidewall	C										
	2 S-5 South Sidewall											
	3 S-4 North Sidewall											
	4 S-4 South Sidewall											
	5 S-6 West Sidewall											
	6 S-1 North Sidewall											
	7 S-3 East Sidewall											
	8 S-3 South Sidewall											

DATE 3-20-20 **TIME** 16:00 **TPH EXT**

DELIVERED BY: (Circle One)
Sampler - UPS - BUS - Other: 4:10 #113

RECEIVED BY: [Signature]
DATE: 3-20-20 **TIME:** 16:00

PHONE RESULTS: Yes ☐ No ☒
FAX RESULTS: Yes ☐ No ☒

REMARKS: Rush



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

March 30, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 26 1 FED #20

Enclosed are the results of analyses for samples received by the laboratory on 03/25/20 15:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2020
Reported: 03/30/2020
Project Name: TODD 26 1 FED #20
Project Number: 700794.319.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 03/25/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kelly Jacobson

Sample ID: S - 1 NORTH SIDEWALL (H000920-01)

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	03/27/2020	ND	191	95.3	200	0.505	
DRO >C10-C28*	50.2	10.0	03/27/2020	ND	176	87.9	200	0.164	
EXT DRO >C28-C36	23.2	10.0	03/27/2020	ND					
Surrogate: 1-Chlorooctane	84.0 %	44.3-144							
Surrogate: 1-Chlorooctadecane	89.8 %	42.2-156							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE
Project Manager: Chris Jones
Address: 408 W Texas Ave
City: Artesia State: NM Zip: 88210
Phone #: 575-491-6460 Fax #:
Project #: 700794.319.01 Project Owner: Devon Energy
Project Name: Talco 261 Fed 20
Project Location: Eddy County
Sample Name: Brandon Sinclair
FOR LAB USE ONLY

P.O. #: 700794.319.01
Company: Talon LPE
Attn: Chris Jones
Address:
City:
State: Zip:
Phone #: Fax #:

Lab I.D. H000920 Sample I.D.
1 S-1 North Sidewall C (G) RAB OR (C) COMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE/COOL
OTHER:
DATE 3-25-2014 TIME 14:00
TPH EXT ✓

PLEASE NOTE: Liability and Damages, Contractual liability and other restrictions remain for any claim arising whether based in contract or tort. Final liability to the extent paid by the client for the analysis. All claims including those for negligence and any other cause of action shall be deemed waived unless made in writing and received by Cardinal within 90 days of the completion of the applicable analysis. In no event shall Cardinal be liable for personal or consequential damages, including without limitation, business interruption, loss of profits, or loss of goods, but only to the extent of the actual cash value of the property insured. This release shall be binding upon any of the above signed parties and shall be enforceable by the undersigned at the time of signing.

Relinquished By: Brandon Sinclair Date: 3-25-2014 Received By:
Time: 18:27
Relinquished By: Date: Received By:
Time:

Delivered By: (Circle One) -OUC Sample Condition Cool Intact
Sampler - UPS - Bus - Other: H113 Yes ☐ No ☐ Yes ☐ No ☐
CHECKED BY: h3

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:
REMARKS:

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