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## Remediation and Closure Report

North Pure Gold 8 Fed #001  
API# 30-015-26296  
Eddy County, NM  
*NRM2005656589*

### Prepared For:

Devon Energy Corporation  
6488 Seven Rivers Highway  
Artesia, NM 88210

### Prepared By:

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

**May 18, 2020**

Mr. Jim Amos  
**BLM Carlsbad Field Office**  
620 East Greene Street  
Carlsbad, NM 88220

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Remediation and Closure Report**  
North Pure Gold 8 Fed #001  
API# 30-015-26296  
Eddy County, NM

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and a remediation work plan for the above-referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

### Site Information

The North Pure Gold 8 Fed #1 is located approximately twenty-seven (27) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter I, Section 8, Township 23 South, and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.317100 North and -103.793500 West. A site map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Maljamar and Palomas fine sands with 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources (USGS), the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont alluvial deposits. 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 85-feet below ground surface (BGS). According to the USGS, the closest recorded depth to groundwater is greater than 100-feet BGS. The Trend map references groundwater depth to be 100-feet BGS. See [Appendix II](#) for the referenced groundwater depth data. 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	85 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 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 freshwater 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 between 51-100-feet, based upon the site characterization for this project, the cleanup criteria are as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
51-100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	10,000 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 19, 2020, the fiberglass tank developed a hole resulting in a release of fluids inside the unlined earthen containment. An estimated 40 barrels (bbls) of produced water and 5.2 bbls of oil were released, 0 bbls were recovered. All fluids were contained within the earthen bermed containment.

Talon mobilized personnel and equipment to the site to begin assessment and remediation activities. Following site assessment activities, the impacted area was excavated utilizing a backhoe. Sample locations are shown on the attached site map, the results of our sampling event are presented in the following data tables.



## Soil Sampling

## 3-3-20 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	10,000 mg/kg
S-1	3/3/2020	0-1'	ND	ND	ND	ND	ND	ND	112
S-2		0-1'	ND	ND	ND	62.9	ND	62.9	112
S-3		0-1'	ND	ND	ND	ND	ND	ND	64
S-4		0-1'	ND	ND	ND	ND	ND	ND	16
		1-2'	ND	ND	ND	ND	ND	ND	ND
S-5		0-1'	15.2	ND	258	2250	ND	2508	80
		1-2'	6.99	ND	202	1220	ND	1422	32
S-6		0-1'	ND	ND	ND	ND	ND	ND	32
		1-2'	ND	ND	ND	ND	ND	ND	32
S-7		0-1'	21.6	0.095	2050	11800	ND	13850	96
		1-2'	94.9	ND	4220	16900	ND	21120	32
		2-3'	90.4	ND	4640	18000	ND	22640	32
		3-4'	86.3	ND	5160	18900	ND	24060	32
S-8		0-1'	114	ND	3670	12600	ND	16270	64
		1-2'	119	ND	4280	12300	ND	16580	48
		2-3'	117	ND	3870	11200	ND	15070	32
		3-4'	109	ND	3890	11300	ND	15190	32

ND-Analyte Not Detected

Following the initial excavation, confirmation bottom and sidewall samples we obtained. Based on the results, we continued the excavation vertically and horizontally to the extent practicable to not compromise the integrity of the infrastructure.

## 3-30-20 Laboratory Results

Sample ID	Sample Date	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			DRO + GRO combined = 1000 mg/kg			2500 mg/kg
S-7 S. Sidewall Composite	3/30/2020	4	ND	430	ND	430
S-7 N. Sidewall Composite		4	240	4700	ND	4940
S-7 E. Sidewall Composite		4	ND	480	ND	480
S-8 N. Sidewall Composite		4	570	1200	ND	1770
S-8 E. Sidewall Composite		4	280	4400	ND	4680
S-8 W. Sidewall Composite		4	1100	11000	ND	12100
S-8		6	2900	15000	ND	17900
S-8		8	1300	13000	ND	14300
S-8		10-R	1800	14000	ND	15800
S-7		6	20	51	ND	71

ND- Analyte Not Detected

After the additional excavating, we took additional confirmation samples. The results are as follows:

#### 4-6-20 Laboratory Results

Sample ID	Sample Date	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			DRO + GRO combined = 1000 mg/kg			2500 mg/kg
S-8 E. Sidewall Composite	4/6/2020	4	ND	17	ND	17
S-7 E. Sidewall Composite		4	ND	ND	ND	ND
S-7 S. Sidewall Composite		4	ND	ND	ND	ND

ND- Analyte Not Detected

On April 16, 2020, Talon mobilized an air-rotary drill rig to drill a borehole to determine the vertical extent of the contamination. The results of this event are as follows:

#### 4-16-20 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-8	4/16/2020	12	--	--	ND	362	ND	362

ND- Analyte Not Detected

### Remedial Actions

- The impacted areas of S-7 and S-8 were excavated to a depth of 4.0-feet below ground surface (BGS), the maximum extent practicable not to compromise the structural integrity of the surrounding tank and infrastructure.
- The sidewall samples of S-7 North and S-8 West could not be advanced any further due to the presence of the infrastructure. S-8 North could not be extended because of the stairs going to the catwalk. These areas will be addressed at the time of closure of the facility.
- The impacted area is vertically delineated.
- All of the excavated material was disposed of at Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The backfilling activities were completed with newly obtained caliche, compacted and contoured to match the surrounding location.
- The Final C-141's are appended hereto in [Appendix III](#).

## Deferral Closure

On behalf of Devon Energy, we respectfully request that no further actions be required at this time and that a remediation deferral until facility closure with regard to this incident be granted.

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

Respectfully submitted,

TALON/LPE



Chris Jones  
Project Manager



David J Adkins  
District Manager

### Attachments:

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



# **APPENDIX I**

**SITE MAP**

**KARST MAP**

**TOPO MAP**


**LOCATION MAP**




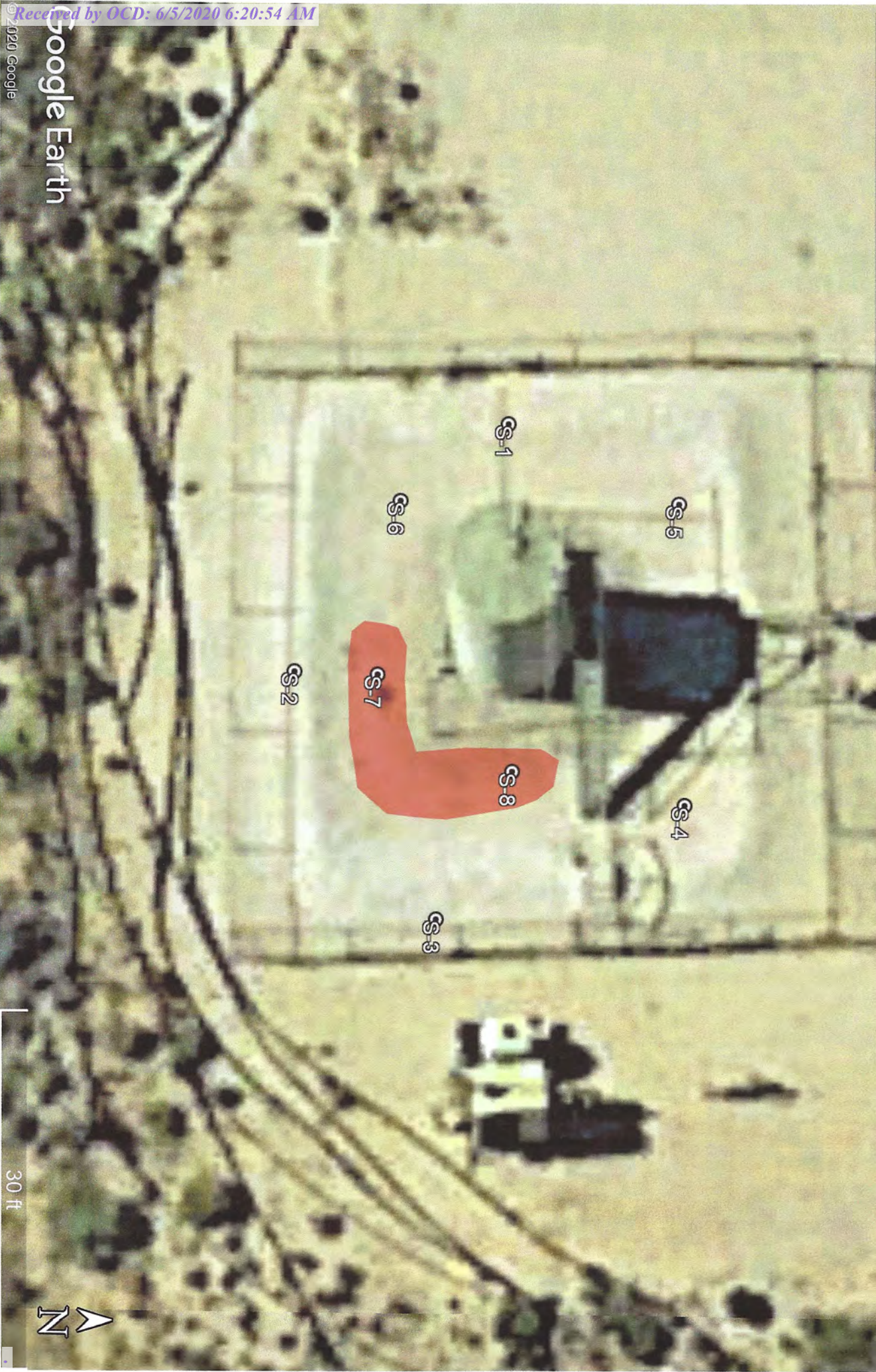
# North Pure Gold 8 Fed #001

Devon Energy Production Company  
Eddy County, NM  
API 30-015-26296  
Site Map

Legend

 Spill Area

 Samples





**N. Pure Gold 8 Fed 1**  
Devon Energy Production Company  
Eddy County, NM  
API 30-015-26296  
Karst Map

Wipp Rd

N. Pure Gold 8 Fed 1

128

Del Hwy

3 mi

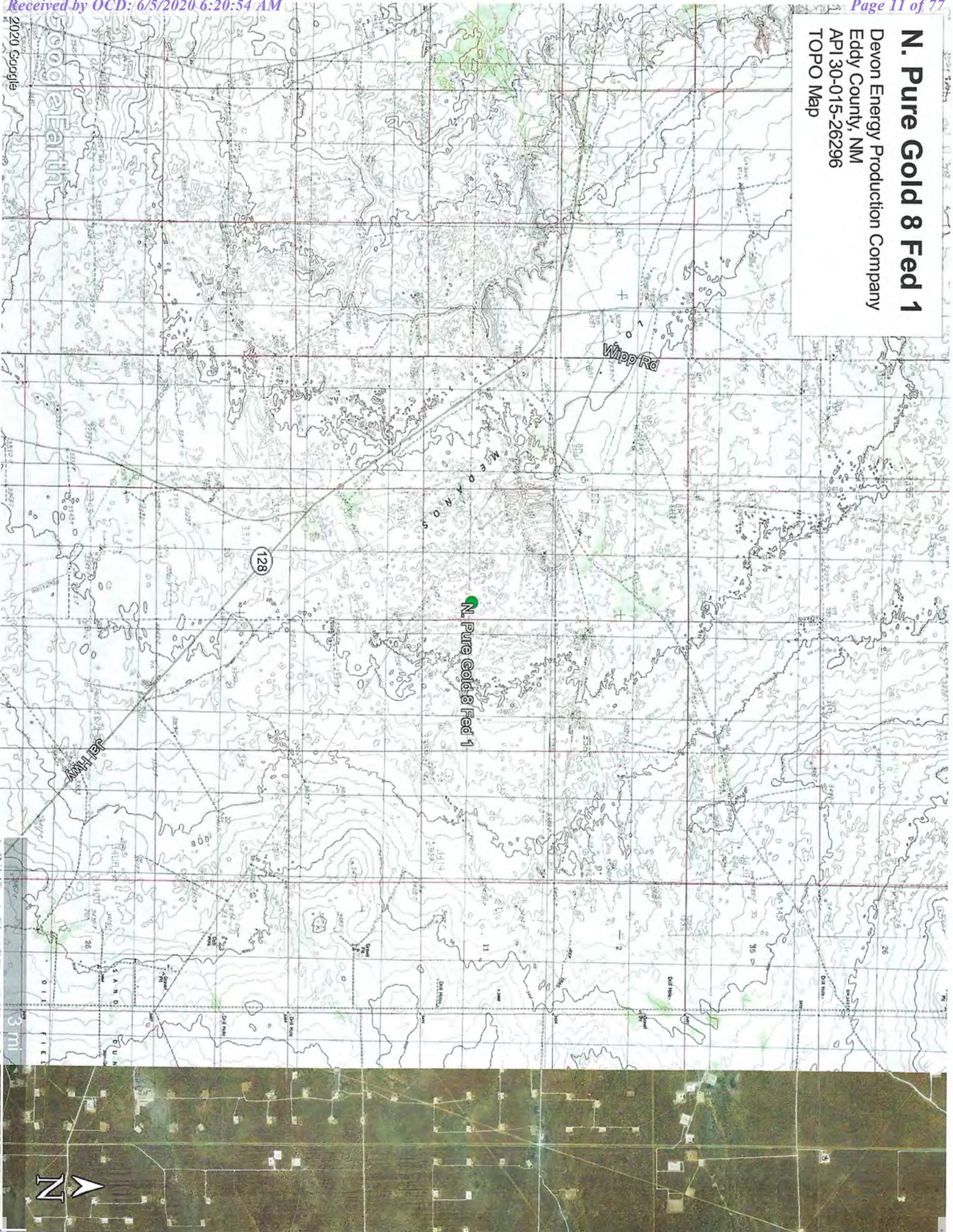


2020 Google

Google Earth



**N. Pure Gold 8 Fed 1**  
Devon Energy Production Company  
Eddy County, NM  
API 30-015-26296  
TOPO Map

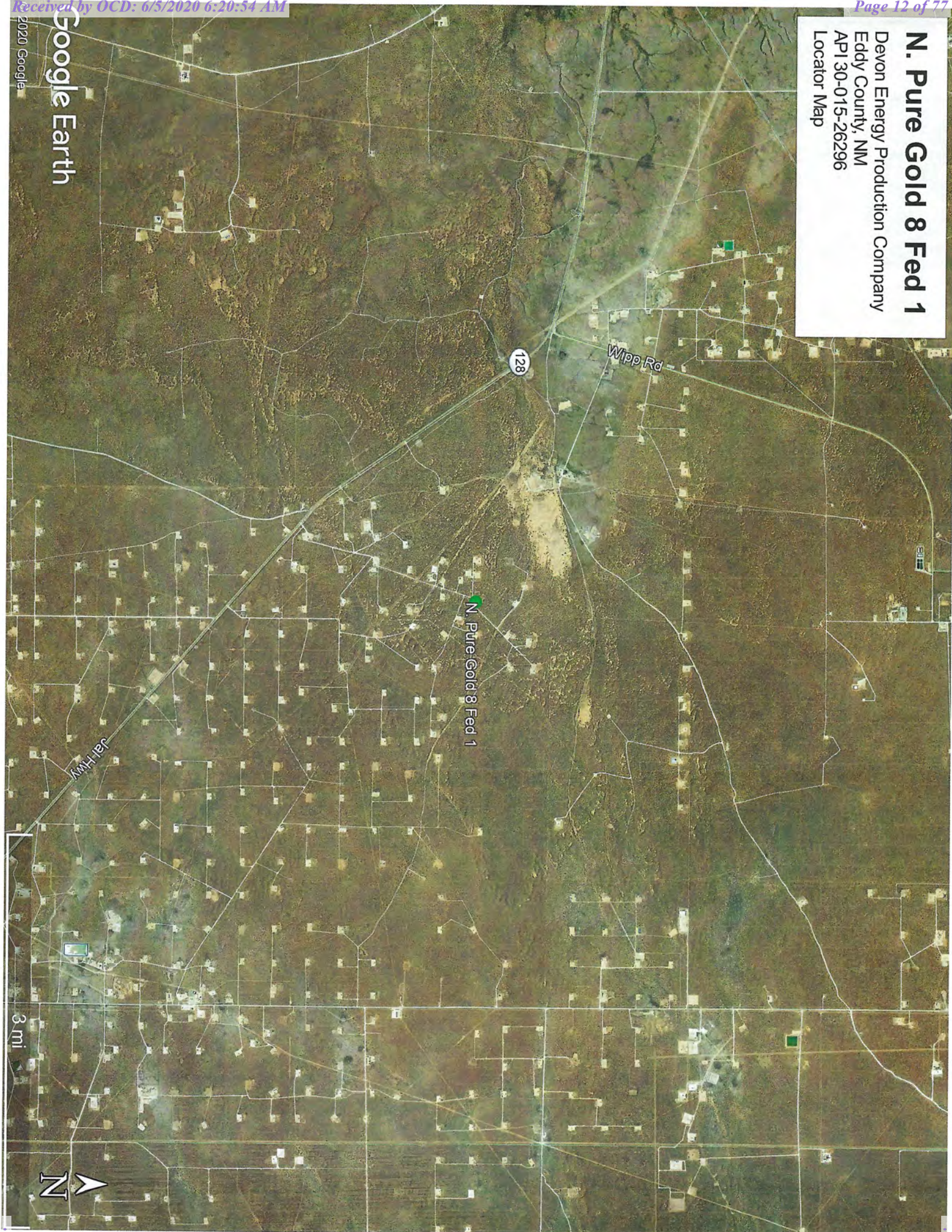




**N. Pure Gold 8 Fed 1**  
Devon Energy Production Company  
Eddy County, NM  
API 30-015-26296  
Locator Map

Google Earth

© 2020 Google







## **APPENDIX II**

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# **FEMA FLOOD ZONE**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced,  
O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 02774</a>		CUB	ED	3	1	3	04	23S	31E	613857	3577745*	1548	1660		
<a href="#">C 02492</a>		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1870	135	85	50
<a href="#">C 02865</a>		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1870	174		
<a href="#">C 02492 POD2</a>		C	ED	3	2	2	07	23S	31E	611767	3576996	1962	400	125	275
<a href="#">C 02664</a>		CUB	ED	3	3	2	05	23S	31E	613049	3578138*	1984	4291	354	3937
<a href="#">C 03351</a>		C	ED	4	1	4	04	23S	31E	614917	3577861	2119	320	168	152
<a href="#">C 03140</a>		CUB	ED	4	2	4	04	23S	31E	615266	3577758*	2286	684		
<a href="#">C 02773</a>		CUB	ED	4	1	3	03	23S	31E	615668	3577762*	2600	880		
<a href="#">C 02776</a>		CUB	ED	2	1	1	05	23S	31E	612440	3578731*	2750	661		
<a href="#">C 02725</a>		CUB	ED	1	1	1	05	23S	31E	612240	3578731*	2838	532		
<a href="#">C 02775</a>		CUB	ED	1	1	1	05	23S	31E	612240	3578731*	2838	529		
<a href="#">C 03520 POD1</a>		C	ED	3	1	1	07	23S	31E	610733	3576905	2919	500		

Average Depth to Water: 183 feet

Minimum Depth: 85 feet

Maximum Depth: 354 feet

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 613570.942

Northing (Y): 3576223.443

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.

3/2/20 11:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# National Water Information System: Mapper

**Sites** **Map**

Search

Surface-Water Sites

Groundwater Sites

**Active Sites**

- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

**Inactive Sites**

- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

**Springs**

**Atmospheric Sites**

Wipp Rd

Mills-Raritan Rd

128

**Site Information**

**Site Number:** 321809103481801

**Site Name:** 23S.31E.17.31141

**Site Type:** Well

**Agency:** USGS

[Access Data](#)

0 0.3 0.6mi

-103.771, 32.322



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

## Search Results -- 1 sites found

site\_no list =

- 321809103481801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 321809103481801 23S.31E.17.31141

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'11.3", Longitude 103°48'23.4" NAD83

Land-surface elevation 3,326.00 feet above NGVD29

The depth of the well is 354 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

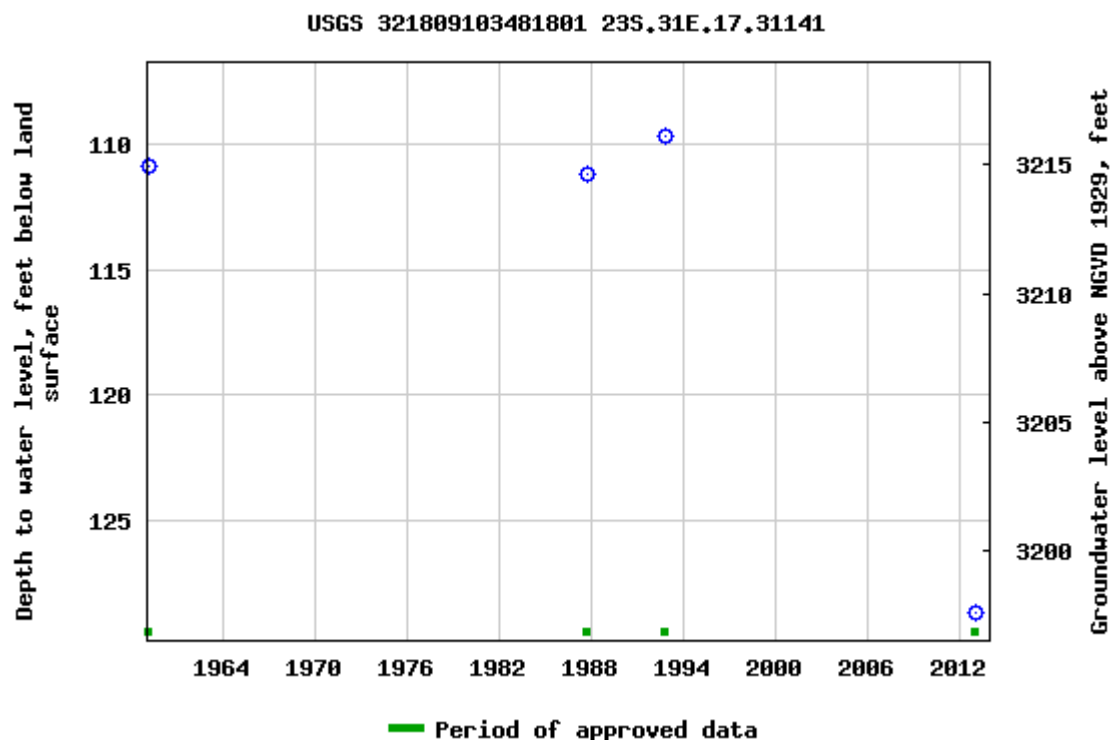
### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

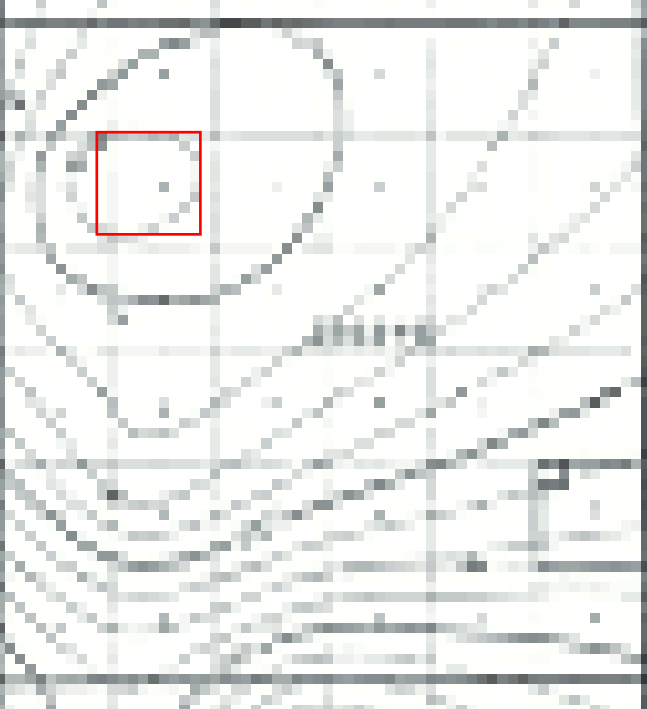
**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-05-18 13:23:01 EDT

0.76 0.6 nadww01







Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes—Eddy Area, New Mexico

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## Eddy Area, New Mexico

### KM—Kermit-Berino fine sands, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4q  
*Elevation:* 3,100 to 4,200 feet  
*Mean annual precipitation:* 10 to 14 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 190 to 230 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kermit and similar soils:* 50 percent  
*Berino and similar soils:* 35 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kermit

##### Setting

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Talf, rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 7 inches:* fine sand  
*H2 - 7 to 60 inches:* fine sand

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Excessively drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (20.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 1.0  
*Available water storage in profile:* Low (about 3.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* Deep Sand (R042XC005NM)  
*Hydric soil rating:* No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

---

## Description of Berino

### Setting

*Landform:* Fan piedmonts, plains  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

### Typical profile

*H1 - 0 to 17 inches:* fine sand  
*H2 - 17 to 50 inches:* fine sandy loam  
*H3 - 50 to 58 inches:* loamy sand

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 40 percent  
*Salinity, maximum in profile:* Very slightly saline to slightly saline  
(2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 1.0  
*Available water storage in profile:* Moderate (about 7.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

## Minor Components

### Active dune land

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

## Data Source Information

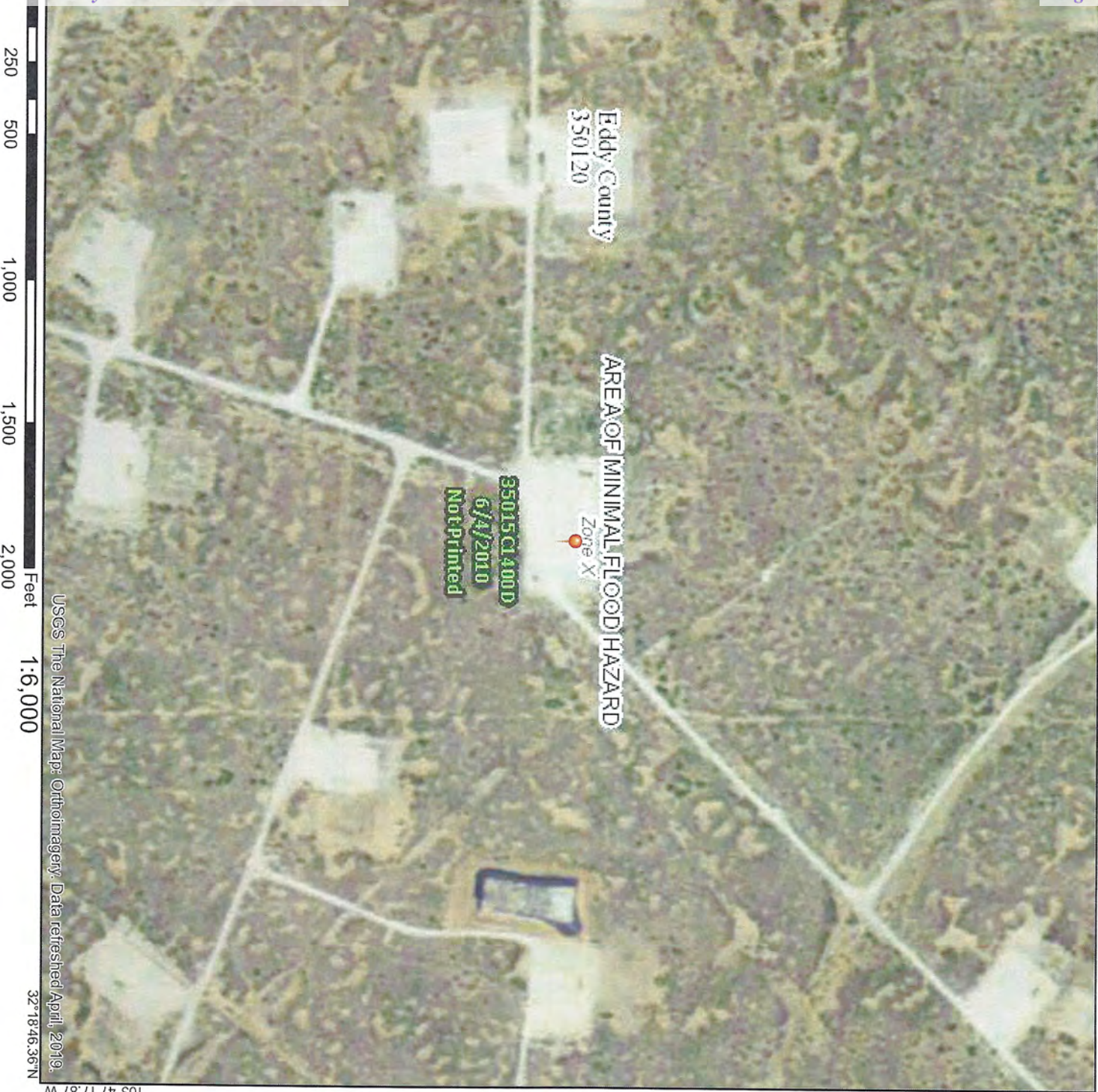
Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 15, Sep 15, 2019



# National Flood Hazard Layer FIRMette



32°19'16.76"N



## Legend

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

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

OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with draining areas of less than one square mile Zone 1 Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee, See Notes, Zone X Area with Flood Risk due to Levee Zone D
-----------------------------	--

OTHER AREAS GENERAL STRUCTURES	NO SCREEN Effective LOMRS Area of Undetermined Flood Hazard Zone Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
--------------------------------	---

OTHER FEATURES	20.2 17.5 Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
----------------	---

MAP PANELS	Digital Data Available No Digital Data Available Unmapped
------------	---

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/2/2020 at 1:48:37 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, FIRN panel number, and FIRN effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



# **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: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	NRM2005656589
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?	_____ 85 (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 <b>not</b> 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

Page 4

Incident ID	NRM2005656589
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: 5-18-20

email: [cjones@talonlpe.com](mailto:cjones@talonlpe.com)

Telephone: 575-748-8768

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	NRM2005656589
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: Chris Jones

Title: Project Manager

Signature:



Date: 5-18-20

email: [cjones@talonlpe.com](mailto:cjones@talonlpe.com)

Telephone: 575-748-8768

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- ☐ Approved      ☐ Approved with Attached Conditions of Approval      ☐ Denied      ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	NRM2005656589
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: 5-18-20

email: [cjones@talonlpe.com](mailto:cjones@talonlpe.com)

Telephone: 575-748-8768

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_





## **APPENDIX IV**

# **PHOTOGRAPHIC DOCUMENTATION**

## Photographic Documentation

### Spill



## Photographic Documentation

### Excavation





## Photographic Documentation

Completed



# Photographic Documentation





## **APPENDIX V**

# **LABORATORY DATA**



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

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March 10, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NORTH PURE GOLD 8 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 03/04/20 13:45.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 1 0-1' (H000708-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3	
Toluene*	<0.050	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5	
Total Xylenes*	<0.150	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7	
Total BTX	<0.300	0.300	03/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/05/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

Cardinal Laboratories

\*=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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 2 0-1' (H000708-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3		
Toluene*	<0.050	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5		
Total Xylenes*	<0.150	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7		
Total BTX	<0.300	0.300	03/05/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/05/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2020	ND	210	105	200	0.805	
DRO >C10-C28*	62.9	10.0	03/05/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

Cardinal Laboratories

\*=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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 3 0-1' (H000708-03)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3		
Toluene*	<0.050	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5		
Total Xylenes*	<0.150	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7		
Total BTX	<0.300	0.300	03/05/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/05/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 4 0-1' (H000708-04)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3		
Toluene*	<0.050	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5		
Total Xylenes*	<0.150	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7		
Total BTX	<0.300	0.300	03/05/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/05/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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: 03/04/2020  
Reported: 03/10/2020  
Project Name: NORTH PURE GOLD 8 FED 1  
Project Number: 700794.324.01  
Project Location: DEVON ENERGY - EDDY CO NM

Sampling Date: 03/03/2020  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 1-2' (H000708-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3	
Toluene*	<0.050	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5	
Total Xylenes*	<0.150	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7	
Total BTX	<0.300	0.300	03/05/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/05/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 42.2-156

Cardinal Laboratories

\*=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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 5 0-1' (H000708-06)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/06/2020	ND	2.00	99.9	2.00	12.3	
<b>Toluene*</b>	<b>0.282</b>	0.100	03/06/2020	ND	1.93	96.3	2.00	11.0	GC-NC1
Ethylbenzene*	<0.100	0.100	03/06/2020	ND	1.92	96.0	2.00	10.5	GC-NC1
<b>Total Xylenes*</b>	<b>14.9</b>	0.300	03/06/2020	ND	5.69	94.8	6.00	10.7	GC-NC1
<b>Total BTX</b>	<b>15.2</b>	0.600	03/06/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 431 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>258</b>	10.0	03/05/2020	ND	190	95.1	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>2250</b>	10.0	03/05/2020	ND	181	90.7	200	6.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 5 1-2' (H000708-07)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3	
Toluene*	0.093	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0	GC-NC1
Ethylbenzene*	5.24	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5	GC-NC1
Total Xylenes*	1.65	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7	GC-NC1
Total BTX	6.99	0.300	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 404 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	202	10.0	03/06/2020	ND	210	105	200	0.805	QM-07
DRO >C10-C28*	1220	10.0	03/06/2020	ND	215	107	200	2.23	QM-07
EXT DRO >C28-C36	<10.0	10.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 135 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 6 0-1' (H000708-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2020	ND	2.00	99.9	2.00	12.3	
Toluene*	<0.050	0.050	03/06/2020	ND	1.93	96.3	2.00	11.0	
Ethylbenzene*	<b>0.083</b>	0.050	03/06/2020	ND	1.92	96.0	2.00	10.5	
Total Xylenes*	<0.150	0.150	03/06/2020	ND	5.69	94.8	6.00	10.7	
Total BTX	<0.300	0.300	03/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 6 1-2' (H000708-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2020	ND	2.00	99.9	2.00	12.3	
Toluene*	<0.050	0.050	03/06/2020	ND	1.93	96.3	2.00	11.0	
Ethylbenzene*	0.079	0.050	03/06/2020	ND	1.92	96.0	2.00	10.5	
Total Xylenes*	<0.150	0.150	03/06/2020	ND	5.69	94.8	6.00	10.7	
Total BTX	<0.300	0.300	03/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	<10.0	10.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 7 0-1' (H000708-10)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.095</b>	0.050	03/05/2020	ND	2.00	99.9	2.00	12.3	
<b>Toluene*</b>	<b>3.42</b>	0.050	03/05/2020	ND	1.93	96.3	2.00	11.0	GC-NC1
Ethylbenzene*	<0.050	0.050	03/05/2020	ND	1.92	96.0	2.00	10.5	GC-NC1
<b>Total Xylenes*</b>	<b>18.1</b>	0.150	03/05/2020	ND	5.69	94.8	6.00	10.7	GC-NC1
<b>Total BTEx</b>	<b>21.6</b>	0.300	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 811 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2050</b>	50.0	03/06/2020	ND	210	105	200	0.805	
<b>DRO &gt;C10-C28*</b>	<b>11800</b>	50.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<50.0	50.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 277 % 44.3-144

Surrogate: 1-Chlorooctadecane 189 % 42.2-156

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**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 7 1-2' (H000708-11)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	8.73	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	40.5	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	45.7	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTEX	94.9	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 177 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4220	50.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	16900	50.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<50.0	50.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 493 % 44.3-144

Surrogate: 1-Chlorooctadecane 220 % 42.2-156

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**Analytical Results For:**

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 7 2-3' (H000708-12)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	10.2	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	43.1	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	37.1	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTX	90.4	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 163 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4640	50.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	18000	50.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<50.0	50.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 542 % 44.3-144

Surrogate: 1-Chlorooctadecane 227 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 7 3-4' (H000708-13)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	8.81	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	42.0	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	35.5	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTX	86.3	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 164 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5160	50.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	18900	50.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<50.0	50.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 602 % 44.3-144

Surrogate: 1-Chlorooctadecane 219 % 42.2-156

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

Received:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 8 0-1' (H000708-14)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	18.3	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	44.4	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	51.2	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTEX	114	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 157 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3670	50.0	03/06/2020	ND	210	105	200	0.805	
DRO >C10-C28*	12600	50.0	03/06/2020	ND	215	107	200	2.23	
EXT DRO >C28-C36	<50.0	50.0	03/06/2020	ND					

Surrogate: 1-Chlorooctane 393 % 44.3-144

Surrogate: 1-Chlorooctadecane 182 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 8 1-2' (H000708-15)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	17.9	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	54.7	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	46.5	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTX	119	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 175 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4280	50.0	03/09/2020	ND	174	86.8	200	9.08	QM-07, QR-03
DRO >C10-C28*	12300	50.0	03/09/2020	ND	183	91.6	200	17.3	QM-07, QR-03
EXT DRO >C28-C36	<50.0	50.0	03/09/2020	ND					

Surrogate: 1-Chlorooctane 418 % 44.3-144

Surrogate: 1-Chlorooctadecane 171 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 8 2-3' (H000708-16)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/05/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	17.0	2.00	03/05/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	54.0	2.00	03/05/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	45.8	6.00	03/05/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTEX	117	12.0	03/05/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 170 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3870	50.0	03/09/2020	ND	174	86.8	200	9.08	
DRO >C10-C28*	11200	50.0	03/09/2020	ND	183	91.6	200	17.3	
EXT DRO >C28-C36	<50.0	50.0	03/09/2020	ND					

Surrogate: 1-Chlorooctane 389 % 44.3-144

Surrogate: 1-Chlorooctadecane 159 % 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:	03/04/2020	Sampling Date:	03/03/2020
Reported:	03/10/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 8 3-4' (H000708-17)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/06/2020	ND	1.80	89.9	2.00	10.5	
Toluene*	15.3	2.00	03/06/2020	ND	1.79	89.6	2.00	10.9	GC-NC1
Ethylbenzene*	48.9	2.00	03/06/2020	ND	1.82	90.9	2.00	10.8	GC-NC1
Total Xylenes*	44.4	6.00	03/06/2020	ND	5.27	87.8	6.00	10.7	GC-NC1
Total BTX	109	12.0	03/06/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 167 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3890	50.0	03/09/2020	ND	174	86.8	200	9.08	
DRO >C10-C28*	11300	50.0	03/09/2020	ND	183	91.6	200	17.3	
EXT DRO >C28-C36	<50.0	50.0	03/09/2020	ND					

Surrogate: 1-Chlorooctane 381 % 44.3-144

Surrogate: 1-Chlorooctadecane 160 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager






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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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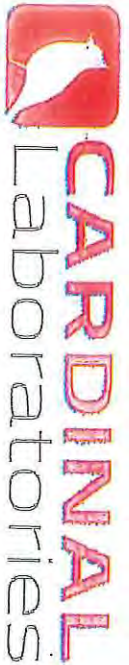
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 Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Talon LPE</b>		P.O. #: <b>700794.324.01</b>	
Project Manager: <b>Chris Jones</b>		Company: <b>Talon LPE</b>	
Address: <b>408 W Texas Ave</b>		Attn: <b>Chris Jones</b>	
City: <b>Artesia</b>	State: <b>NM</b> Zip: <b>88210</b>	Address:	
Phone #: <b>575-746-8768</b>	Fax #:	City:	
Project #: <b>700794.324.01</b>	Project Owner: <b>Devon Energy</b>	State:	
Project Location: <b>North Pure Gold 8 Fed 1</b>	Zip:	Phone #:	
Sampler Name: <b>Brandon Sinclair</b>	Fax #:	PRESERV.	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:				
#000708	1 S-1 0-1'	G											5-3-20	0910	Y	TPH EXT
	2 S-2 0-1'													0915	Y	BTEX
	3 S-3 0-1'													0925	Y	Total Chlorides
	4 S-4 0-1'													0935		
	5 S-4 1-2'													0940		
	6 S-5 0-1'													1000		
	7 S-5 1-2'													1010		
	8 S-6 0-1'													1020		
	9 S-6 1-2'													1025		
	10 S-7 0-1'													1035		

Relinquished By: <b>[Signature]</b>	Date: <b>5-4-20</b>	Received By: <b>[Signature]</b>	Date: <b>5-4-20</b>
Relinquished By: <b>[Signature]</b>	Date: <b>5-4-20</b>	Received By: <b>[Signature]</b>	Date: <b>5-4-20</b>
Delivered By: (Circle One)	Time: <b>1345</b>	Sample Condition	CHECKED BY: <b>[Signature]</b>
Sampler - UPS - Bus - Other: <b>8.7°C #113</b>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
REMARKS: <b>P9 1 of 2</b>	

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tolon LPE		P.O. #: 700794.324.01	
Project Manager: Chris Jones		Company: Tolon LPE	
Address: 408 W Texas Ave.		Attn: Chris Jones	
City: Artesia		Address:	
Phone #: 575-746-8768		State: NM Zip: 88210	
Fax #:		City:	
Project #: 700794.324.01		State:	
Project Name: North Pure Gold & Fed 1		Phone #:	
Project Location: Eddy County		Zip:	
Sampler Name: Brandon Sinclair		Fax #:	
FOR LAB USE ONLY		MATRIX	
		PRESERV	
		SAMPLING	
KT		hlorides	

[illegible]

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Relinquished By:	Date: 3-4-20 Time: 1140		Received By:	Date: 3-4-20 Time: 1140		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:
Delivered By: (Circle One)	Sample - LPS - Bks - Other: A.72 #113	Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKER BY: (Initials)	P92062		

† Cardinal cannot accept verbal changes. Please fix written changes to (57) 393-2328

pg 2 of 2



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

April 03, 2020

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX

RE: North Pure Gold 8 Fed 1

OrderNo.: 2004001

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/1/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order: 2004001

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** North Pure Gold 8 Fed 1

**Lab Order:** 2004001

**Lab ID:** 2004001-001  
**Client Sample ID:** S-7 South Sidewall

**Collection Date:** 3/30/2020 12:00:00 PM**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/1/2020 1:40:21 PM	G67771
Surr: BFB	97.7	70-130		%Rec	1	4/1/2020 1:40:21 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	430	9.7		mg/Kg	1	4/1/2020 7:40:24 PM	51489
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2020 7:40:24 PM	51489
Surr: DNOP	79.1	55.1-146		%Rec	1	4/1/2020 7:40:24 PM	51489

**Lab ID:** 2004001-002  
**Client Sample ID:** S-7 North Sidewall

**Collection Date:** 3/30/2020 12:05:00 PM**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	240	3.6		mg/Kg	1	4/1/2020 3:06:12 PM	G67771
Surr: BFB	122	70-130		%Rec	1	4/1/2020 3:06:12 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	4700	93		mg/Kg	10	4/2/2020 1:51:42 PM	51489
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	4/2/2020 1:51:42 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	10	4/2/2020 1:51:42 PM	51489

**Lab ID:** 2004001-003  
**Client Sample ID:** S-7 East Sidewall

**Collection Date:** 3/30/2020 12:10:00 PM**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/1/2020 3:34:43 PM	G67771
Surr: BFB	108	70-130		%Rec	1	4/1/2020 3:34:43 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	480	9.1		mg/Kg	1	4/1/2020 9:09:12 PM	51489
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/1/2020 9:09:12 PM	51489
Surr: DNOP	79.8	55.1-146		%Rec	1	4/1/2020 9:09:12 PM	51489

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

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

## Analytical Report

Lab Order: 2004001

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** North Pure Gold 8 Fed 1

**Lab Order:** 2004001

**Lab ID:** 2004001-004 **Collection Date:** 3/30/2020 12:15:00 PM

**Client Sample ID:** S-8 North Sidewall **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	570	170		mg/Kg	50	4/1/2020 7:51:27 PM	G67771
Surr: BFB	124	70-130		%Rec	50	4/1/2020 7:51:27 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	1100	95		mg/Kg	10	4/2/2020 2:15:39 PM	51489
Motor Oil Range Organics (MRO)	ND	480		mg/Kg	10	4/2/2020 2:15:39 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	10	4/2/2020 2:15:39 PM	51489

**Lab ID:** 2004001-005 **Collection Date:** 3/30/2020 12:00:00 PM

**Client Sample ID:** S-8 East Sidewall **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	280	3.6		mg/Kg	1	4/1/2020 4:31:47 PM	G67771
Surr: BFB	116	70-130		%Rec	1	4/1/2020 4:31:47 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	4400	100		mg/Kg	10	4/2/2020 2:39:42 PM	51489
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/2/2020 2:39:42 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	10	4/2/2020 2:39:42 PM	51489

**Lab ID:** 2004001-006 **Collection Date:** 3/30/2020 12:25:00 PM

**Client Sample ID:** S-8 West Sidewall **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	1100	17		mg/Kg	5	4/1/2020 5:00:13 PM	G67771
Surr: BFB	107	70-130		%Rec	5	4/1/2020 5:00:13 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	11000	490		mg/Kg	50	4/2/2020 3:03:40 PM	51489
Motor Oil Range Organics (MRO)	ND	2500		mg/Kg	50	4/2/2020 3:03:40 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	50	4/2/2020 3:03:40 PM	51489

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

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

## Analytical Report

Lab Order: 2004001

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** North Pure Gold 8 Fed 1

**Lab Order:** 2004001**Lab ID:** 2004001-007**Collection Date:** 3/30/2020 12:55:00 PM**Client Sample ID:** S-8 6'**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	2900	310		mg/Kg	100	4/1/2020 8:20:04 PM	G67771
Surr: BFB	106	70-130		%Rec	100	4/1/2020 8:20:04 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	15000	470		mg/Kg	50	4/2/2020 2:03:20 PM	51489
Motor Oil Range Organics (MRO)	ND	2400	D	mg/Kg	50	4/2/2020 2:03:20 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	50	4/2/2020 2:03:20 PM	51489

**Lab ID:** 2004001-008**Collection Date:** 3/30/2020 1:00:00 PM**Client Sample ID:** S-8 8'**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	1300	18		mg/Kg	5	4/1/2020 5:57:08 PM	G67771
Surr: BFB	103	70-130		%Rec	5	4/1/2020 5:57:08 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	13000	450		mg/Kg	50	4/2/2020 2:25:41 PM	51489
Motor Oil Range Organics (MRO)	ND	2200	D	mg/Kg	50	4/2/2020 2:25:41 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	50	4/2/2020 2:25:41 PM	51489

**Lab ID:** 2004001-009**Collection Date:** 3/30/2020 1:05:00 PM**Client Sample ID:** S-8 10'R**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	1800	23		mg/Kg	5	4/1/2020 6:25:53 PM	G67771
Surr: BFB	108	70-130		%Rec	5	4/1/2020 6:25:53 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	14000	490		mg/Kg	50	4/2/2020 2:47:52 PM	51489
Motor Oil Range Organics (MRO)	ND	2400	D	mg/Kg	50	4/2/2020 2:47:52 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	50	4/2/2020 2:47:52 PM	51489

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

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

## Analytical Report

Lab Order: 2004001

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** North Pure Gold 8 Fed 1

**Lab Order:** 2004001**Lab ID:** 2004001-010**Collection Date:** 3/30/2020 1:15:00 PM**Client Sample ID:** S-7 6'**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	20	3.1		mg/Kg	1	4/1/2020 6:54:33 PM	G67771
Surr: BFB	103	70-130		%Rec	1	4/1/2020 6:54:33 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	51	10		mg/Kg	1	4/1/2020 11:44:18 PM	51489
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2020 11:44:18 PM	51489
Surr: DNOP	87.9	55.1-146		%Rec	1	4/1/2020 11:44:18 PM	51489

**Lab ID:** 2004001-011**Collection Date:** 3/30/2020 1:20:00 PM**Client Sample ID:** S-7 8'R**Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	360	16		mg/Kg	5	4/1/2020 7:23:02 PM	G67771
Surr: BFB	101	70-130		%Rec	5	4/1/2020 7:23:02 PM	G67771
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	1500	96		mg/Kg	10	4/2/2020 3:10:05 PM	51489
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	4/2/2020 3:10:05 PM	51489
Surr: DNOP	0	55.1-146	S	%Rec	10	4/2/2020 3:10:05 PM	51489

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

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



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004001

03-Apr-20

**Client:** Talon Artesia  
**Project:** North Pure Gold 8 Fed 1

Sample ID: <b>2004001-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-7 South Sidewall</b>	Batch ID: <b>51489</b>	RunNo: <b>67768</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/1/2020</b>	SeqNo: <b>2340333</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	500	10	50.00	430.3	146	47.4	136			S
Surr: DNOP	3.9		5.000		77.5	55.1	146			

Sample ID: <b>2004001-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-7 South Sidewall</b>	Batch ID: <b>51489</b>	RunNo: <b>67768</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/1/2020</b>	SeqNo: <b>2340334</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	530	9.4	47.08	430.3	204	47.4	136	4.44	43.4	S
Surr: DNOP	3.8		4.708		80.4	55.1	146	0	0	

Sample ID: <b>LCS-51489</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51489</b>	RunNo: <b>67768</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/1/2020</b>	SeqNo: <b>2340347</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.5	70	130			
Surr: DNOP	3.7		5.000		73.3	55.1	146			

Sample ID: <b>MB-51489</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51489</b>	RunNo: <b>67768</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/1/2020</b>	SeqNo: <b>2340350</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		77.6	55.1	146			

**Qualifiers:**

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

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004001

03-Apr-20

**Client:** Talon Artesia**Project:** North Pure Gold 8 Fed 1

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>G67771</b>			RunNo: <b>67771</b>						
Prep Date:	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340592</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	510		500.0		103	70	130			

Sample ID: <b>2004001-001ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>S-7 South Sidewall</b>	Batch ID: <b>G67771</b>			RunNo: <b>67771</b>						
Prep Date:	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340607</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.56	0	98.5	70	130			
Surr: BFB	340		351.1		97.7	70	130			

Sample ID: <b>2004001-001amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>S-7 South Sidewall</b>	Batch ID: <b>G67771</b>			RunNo: <b>67771</b>						
Prep Date:	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340608</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.5	17.56	0	92.7	70	130	6.11	20	
Surr: BFB	340		351.1		95.8	70	130	0	0	

Sample ID: <b>lcs-51453</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>51453</b>			RunNo: <b>67771</b>						
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340621</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		99.0	70	130			

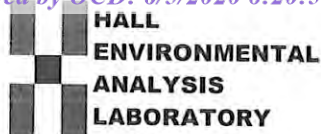
Sample ID: <b>mb1</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>G67771</b>			RunNo: <b>67771</b>						
Prep Date:	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340622</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.4	70	130			

Sample ID: <b>mb-51453</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51453</b>			RunNo: <b>67771</b>						
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340623</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		97.0	70	130			

**Qualifiers:**

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

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



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

## Sample Log-In Check List

Client Name: **TALON ARTESIA**Work Order Number: **2004001**

RcptNo: 1

Received By: **Isaiah Ortiz**

4/1/2020 8:35:00 AM

I-OK

Completed By: **Isaiah Ortiz**

4/1/2020 8:42:03 AM

I-OK

Reviewed By: **LB**

4/1/2020

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **DAD 3/**

**DAD 4/1/20**

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Not Present			
2	1.7	Good	Not Present			









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

April 13, 2020

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

RE: N Pure Gold 8 Fed 1

OrderNo.: 2004234

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/7/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2004234

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: E. SW Comp #8

Project: N Pure Gold 8 Fed 1

Collection Date: 4/6/2020 8:30:00 AM

Lab ID: 2004234-001

Matrix: MEOH (SOIL)

Received Date: 4/7/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/7/2020 2:03:30 PM	G67912
Surr: BFB	99.6	70-130		%Rec	1	4/7/2020 2:03:30 PM	G67912
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	17	9.2		mg/Kg	1	4/7/2020 9:46:06 AM	51606
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/7/2020 9:46:06 AM	51606
Surr: DNOP	95.0	55.1-146		%Rec	1	4/7/2020 9:46:06 AM	51606

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

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

## Analytical Report

Lab Order 2004234

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: E. SW Comp #7

Project: N Pure Gold 8 Fed 1

Collection Date: 4/6/2020 8:35:00 AM

Lab ID: 2004234-002

Matrix: MEOH (SOIL)

Received Date: 4/7/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/7/2020 2:31:57 PM	G67912
Surr: BFB	103	70-130		%Rec	1	4/7/2020 2:31:57 PM	G67912
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/7/2020 10:10:20 AM	51606
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/7/2020 10:10:20 AM	51606
Surr: DNOP	97.9	55.1-146		%Rec	1	4/7/2020 10:10:20 AM	51606

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

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

## Analytical Report

Lab Order 2004234

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S. SW Comp #7

Project: N Pure Gold 8 Fed 1

Collection Date: 4/6/2020 8:40:00 AM

Lab ID: 2004234-003

Matrix: MEOH (SOIL)

Received Date: 4/7/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/7/2020 3:00:23 PM	G67912
Surr: BFB	101	70-130		%Rec	1	4/7/2020 3:00:23 PM	G67912
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2020 9:58:49 AM	51606
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2020 9:58:49 AM	51606
Surr: DNOP	87.9	55.1-146		%Rec	1	4/7/2020 9:58:49 AM	51606

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

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



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004234

13-Apr-20

**Client:** Talon Artesia**Project:** N Pure Gold 8 Fed 1

Sample ID: <b>MB-51606</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51606</b>	RunNo: <b>67895</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2346080</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	55.1	146			

Sample ID: <b>LCS-51606</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51606</b>	RunNo: <b>67895</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2346082</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	70	130			
Surr: DNOP	4.6		5.000		91.2	55.1	146			

Sample ID: <b>LCS-51606-2</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51606</b>	RunNo: <b>67895</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2346083</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	70	130			
Surr: DNOP	4.5		5.000		89.8	55.1	146			

Sample ID: <b>LCS-51606-3</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51606</b>	RunNo: <b>67895</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2346084</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	95.0	70	130			
Surr: DNOP	4.5		5.000		90.1	55.1	146			

Sample ID: <b>2004234-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>E. SW Comp #8</b>	Batch ID: <b>51606</b>	RunNo: <b>67900</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2347578</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.6	47.94	16.80	73.7	47.4	136			
Surr: DNOP	4.5		4.794		93.3	55.1	146			

**Qualifiers:**

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

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004234

13-Apr-20

**Client:** Talon Artesia**Project:** N Pure Gold 8 Fed 1

Sample ID: <b>2004234-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>E. SW Comp #8</b>	Batch ID: <b>51606</b>	RunNo: <b>67900</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2347579</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.9	49.65	16.80	75.2	47.4	136	3.73	43.4	
Surr: DNOP	4.8		4.965		97.2	55.1	146	0	0	

Sample ID: <b>LCS-51634</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51634</b>	RunNo: <b>67900</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/9/2020</b>	SeqNo: <b>2348958</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.0	55.1	146			

Sample ID: <b>MB-51634</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51634</b>	RunNo: <b>67900</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/9/2020</b>	SeqNo: <b>2348959</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.9	55.1	146			

**Qualifiers:**

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

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004234

13-Apr-20

**Client:** Talon Artesia**Project:** N Pure Gold 8 Fed 1

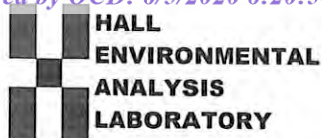
Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>G67912</b>			RunNo: <b>67912</b>						
Prep Date:	Analysis Date: <b>4/6/2020</b>			SeqNo: <b>2346368</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.5	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID: <b>mb1</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>G67912</b>			RunNo: <b>67912</b>						
Prep Date:	Analysis Date: <b>4/6/2020</b>			SeqNo: <b>2346405</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		100	70	130			

**Qualifiers:**

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

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



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

## Sample Log-In Check List

Client Name: **TALON ARTESIA**Work Order Number: **2004234**

RcptNo: 1

Received By: **Juan Rojas**

4/7/2020 8:25:00 AM

*Juan Rojas*Completed By: **Isaiah Ortiz**

4/7/2020 8:27:43 AM

*Isaiah Ortiz*Reviewed By: *LB*

4/7/2020

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *DAD 4/7/20*

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			



## Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-491-6460

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including cF): 4.2-0.1 = 4.1

Date

Time

Matrix

Sample Name

4/6 0830 soil E.S.W. Comp #8  
 4/6 0835 soil E.S.W. Comp #7  
 4/6 0840 soil E.S.W. Comp #7

Container Type and #

Preservative Type

HEAL No  
1004234

per see -001  
 1 -002  
 1 -003

Turn-Around Time:

☒ Standard ☒ Rush

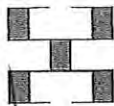
Project Name:

W. Pure Coal 8 Feat 1  
 Project #:

200294.324.01

Project Manager:

C. Jones



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks: Please cc the following via email:

Dadkins@talonlpe.com

Rpons@talonlpe.com

Received by: [Signature]

Date: 4/6/21

Time: 1545

Received by: [Signature]

Date: 4/7/21

Time: 8:25

Date: 4/6/21

Time: 3:43

Relinquished by: [Signature]

Date: 4/6/21

Time: 1900

Relinquished by: [Signature]

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



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

---

April 17, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NORTH PURE GOLD 8 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/17/20 9:45.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	04/17/2020	Sampling Date:	04/16/2020
Reported:	04/17/2020	Sampling Type:	Soil
Project Name:	NORTH PURE GOLD 8 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.324.01	Sample Received By:	Kelly Jacobson
Project Location:	DEVON ENERGY - EDDY CO NM		

**Sample ID: S - 8 12' (H001136-01)**

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	04/17/2020	ND	191	95.3	200	0.168	
<b>DRO &gt;C10-C28*</b>	<b>362</b>	10.0	04/17/2020	ND	178	88.8	200	0.871	
EXT DRO >C28-C36	<10.0	10.0	04/17/2020	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

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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

---

Cardinal Laboratories

\*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> TALON UPE		<b>P.O. #:</b> 700794.324.01
<b>Project Manager:</b> C. JONES		
<b>Address:</b> 408. N. TEXAS AVE	<b>State:</b> NM	<b>City:</b> ALBUQUERQUE
<b>City:</b> ALBUQUERQUE	<b>Zip:</b> 88210	<b>Atttn:</b> C. JONES
<b>Phone #:</b> 575-631-6977	<b>Fax #:</b>	<b>Address:</b>
<b>Project #:</b> 700794.324.01	<b>Project Owner:</b> DEVCON	<b>City:</b>
<b>Project Name:</b> N. PURE HOLD & FEOL	<b>State:</b>	<b>Zip:</b>
<b>Project Location:</b> EDGOT COUNTY	<b>Phone #:</b>	
<b>Sampler Name:</b> MICHAEL COLEMAN	<b>Fax #:</b>	

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
4001136							
1	5-8 12'	G	1				
2	5-8 14'						
3	5-8 14'						
4	5-8 18'						
5	5-8 20'						
6	5-8 25'						
7	5-8 30'						

DATE	TIME	TPH
4/16/20	1:10	5
	1:20	
	1:30	
	1:50	
	2:00	
	2:10	
	2:20	

**PLEASE NOTE:** Liability and Damages. Contracts issued and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including third party negligence and any other causes whatsoever shall be released waived unless made in writing and received by Cardinal within sixty days after completion of the applicable services. In no event shall Cardinal be liable for consequential damages, including without limitation, business interruptions, loss of profits, or loss of profits incurred by client, its subsidiaries, affiliates or successors and/or not at or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

**Relinquished By:** M.C.E.  
**Date:** 4-17-20  
**Time:** 9:45  
**Received By:** [Signature]  
**Date:**  
**Time:**

**Delivered By:** (Circle One) 4.4c  
**Sampler - UPS - Bus - Other:** #113

**Sample Condition:** Copied Interact Yes No  
**Checked By:** [Initials] 63

**PHONE RESULTS:** Yes No Add'l Phone #  
**REMARKS:** Stop test once a sample has results below closure criteria.  
 Below (TPH 2500 ug/kg)  
 RUSH