talonlpe.com • 866.742.0742

TALON LPE

Remediation and Closure Report

Sirius 17 Fed #6H
API # 30-015-41761
NRM2002843138
Talon Project #700794.302.01

Prepared For:

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

Prepared By:

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

February 24, 2020

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

Subject: **Remediation and Closure Report**
Sirius 17 Fed #6H
API # 30-015-41761
NRM2002843138

Dear Mr. Bratcher,

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

Site Information

The Sirius 17 Fed #6H is located approximately twenty-six (26) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 17, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.66301 North and -103.8837 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Wink loamy fine sand, 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of alluviam and piedmont deposits. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 140-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is located within a low potential Karst area.

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

Approximate Depth to Groundwater	140 Feet/BGS

☐Yes ☒No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐Yes ☒No	Within 200 feet of any lakebed, sinkhole or a playa lake
☐Yes ☒No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
☐Yes ☒No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐Yes ☒No	Within 1000 feet of any freshwater well or spring
☐Yes ☒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
☐Yes ☒No	Within 300 feet of a wetland
☐Yes ☒No	Within the area overlying a subsurface mine
☐Yes ☒No	Within an unstable area
☐Yes ☒No	Within a 100-year floodplain

Table I
Closure Criteria for Soils Impacted by a Release

Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
>100 feet	Total Chlorides***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Descriptions

On November 24, 2020, a release occurred a 1" nipple of the pumping T developed a pinhole releasing 3 barrels (bbls) of oil and 10 bbls of produced water. The spill area remained on location. Vac trucks were dispatched to the site to recover the spilled fluids and were able to recover 0.5 bbls of oil and 1.5 bbls of produced water. A site map is presented in Appendix I. The initial C-141 is attached in Appendix III.

Talon mobilized personnel and equipment to the site to begin assessment and remediation activities. The impacted area was excavated utilizing backhoe and roustabout services. Confirmation samples were collected from the bottom and sidewalls of the excavation to ensure that all environmental impacts had been addressed.

Soil Sampling

2-6-20 Background Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	20,000 mg/kg
S-1	2/6/2020	0-1' R	ND	ND	ND	65.4	31.4	96.8	4760
S-2	2/6/2020	0-1' R	ND	ND	ND	48.4	24.8	73.2	10600
S-3	2/6/2020	0-1' R	ND	ND	15.2	159	22.3	196.5	17800
S-4	2/6/2020	0-1' R	ND	ND	ND	39.7	20.8	60.5	4930
S-5	2/6/2020	0-1' R	ND	ND	17.3	43.8	19.3	80.4	3270

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

Remedial Actions

- The spill area on location was scraped up, removing the staining.
- All removed soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- Final C-141 is attached in Appendix IV

Closure

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

Attachments:

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

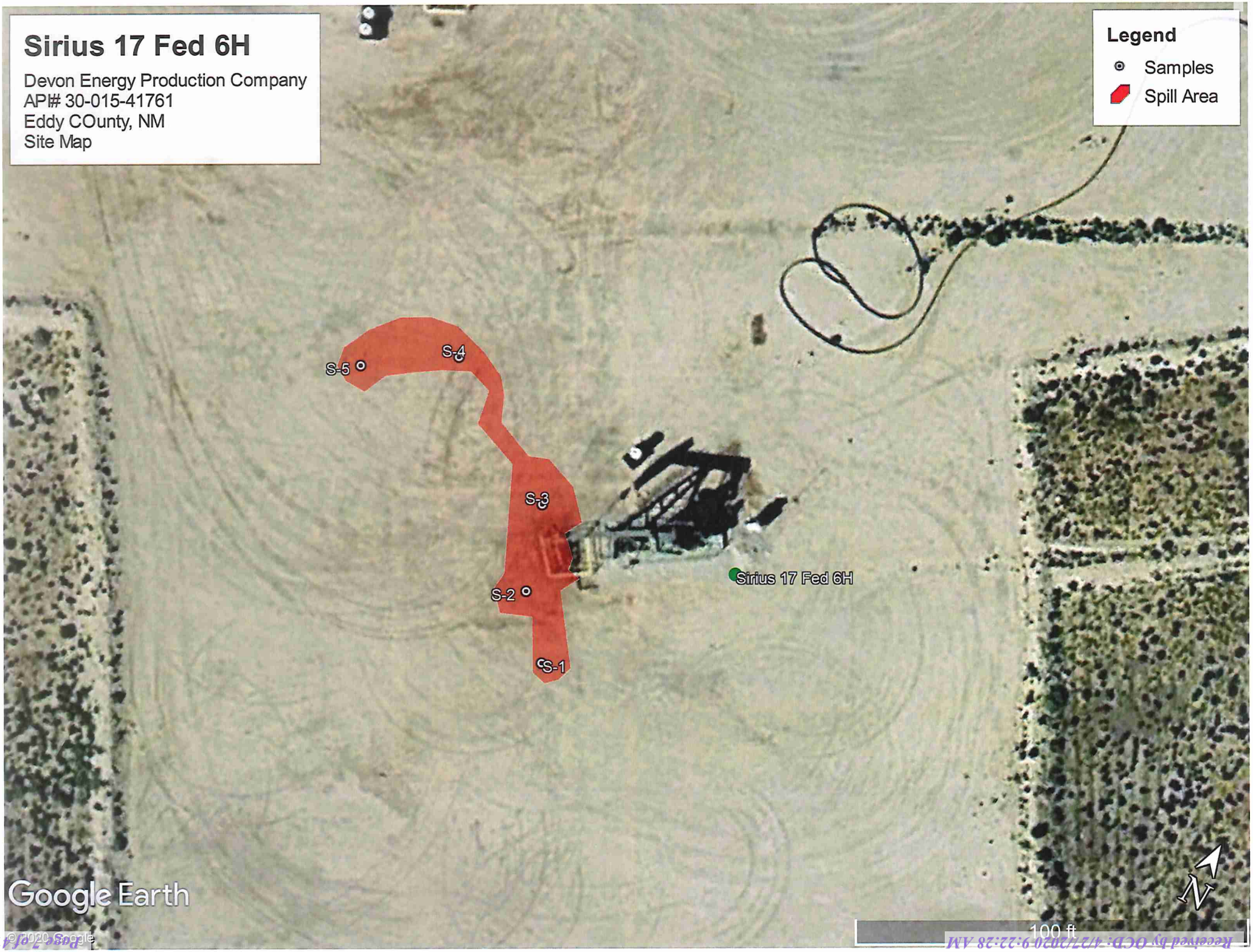
APPENDIX I

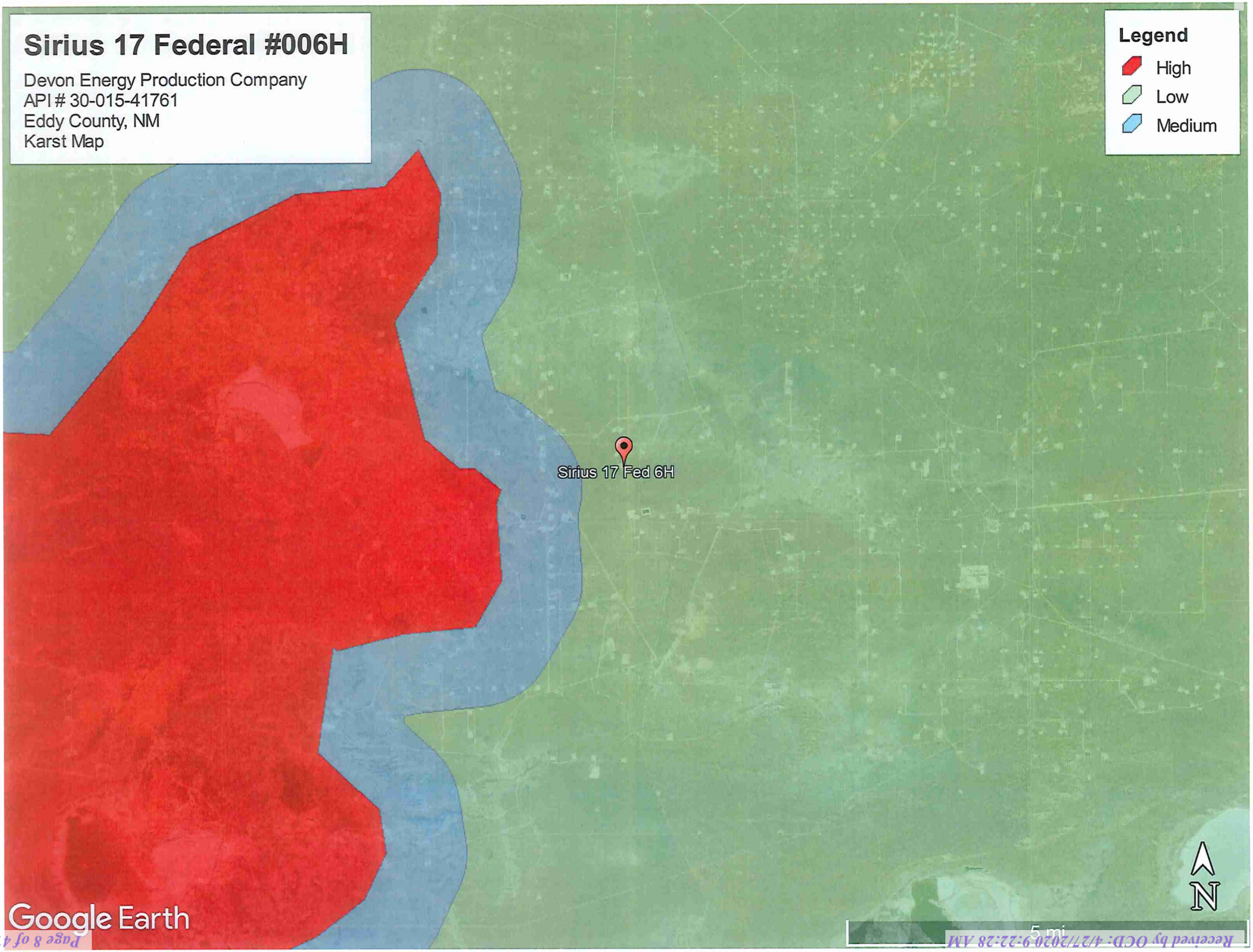
SITE MAP

KARST MAP

TOPO MAP

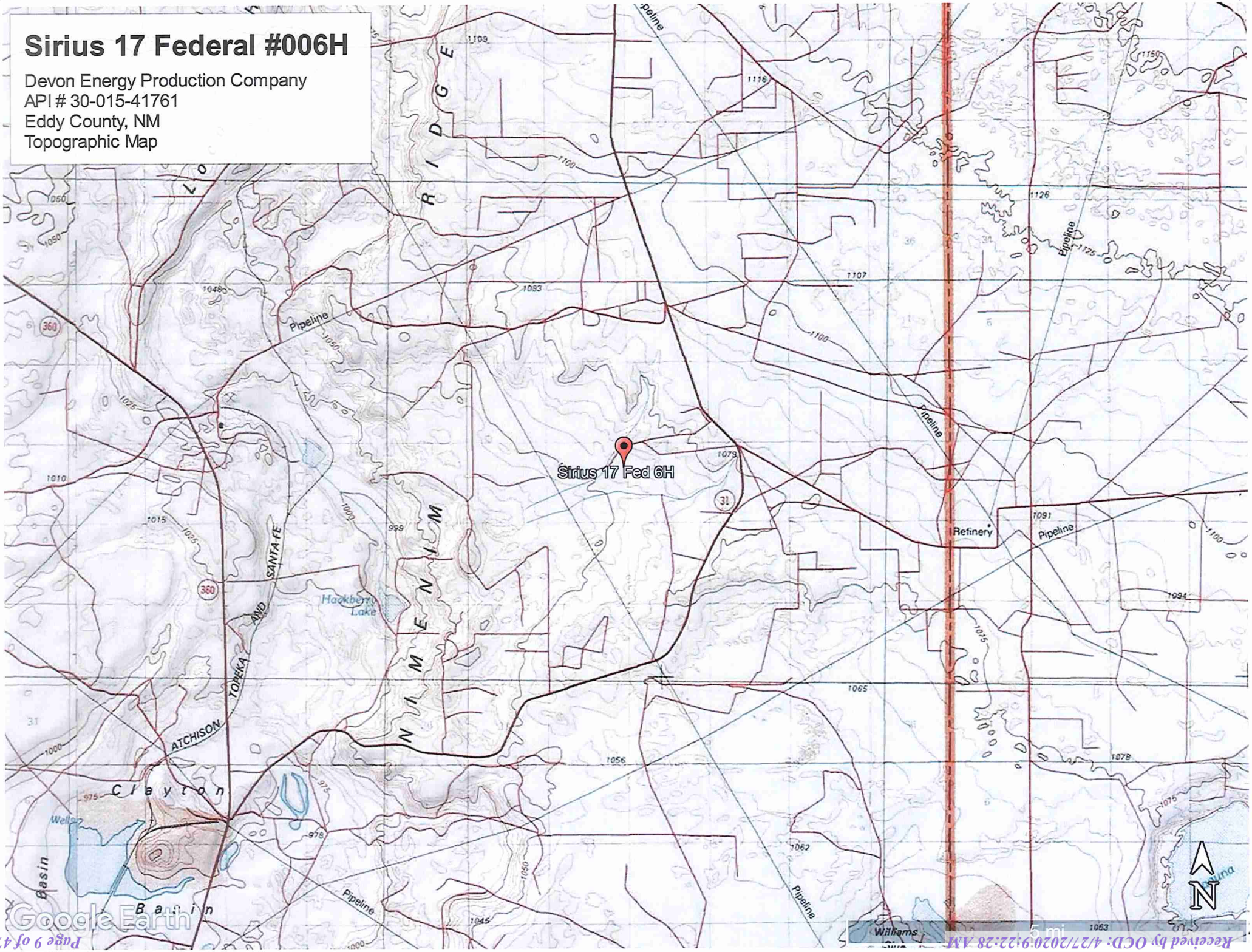
LOCATOR MAP

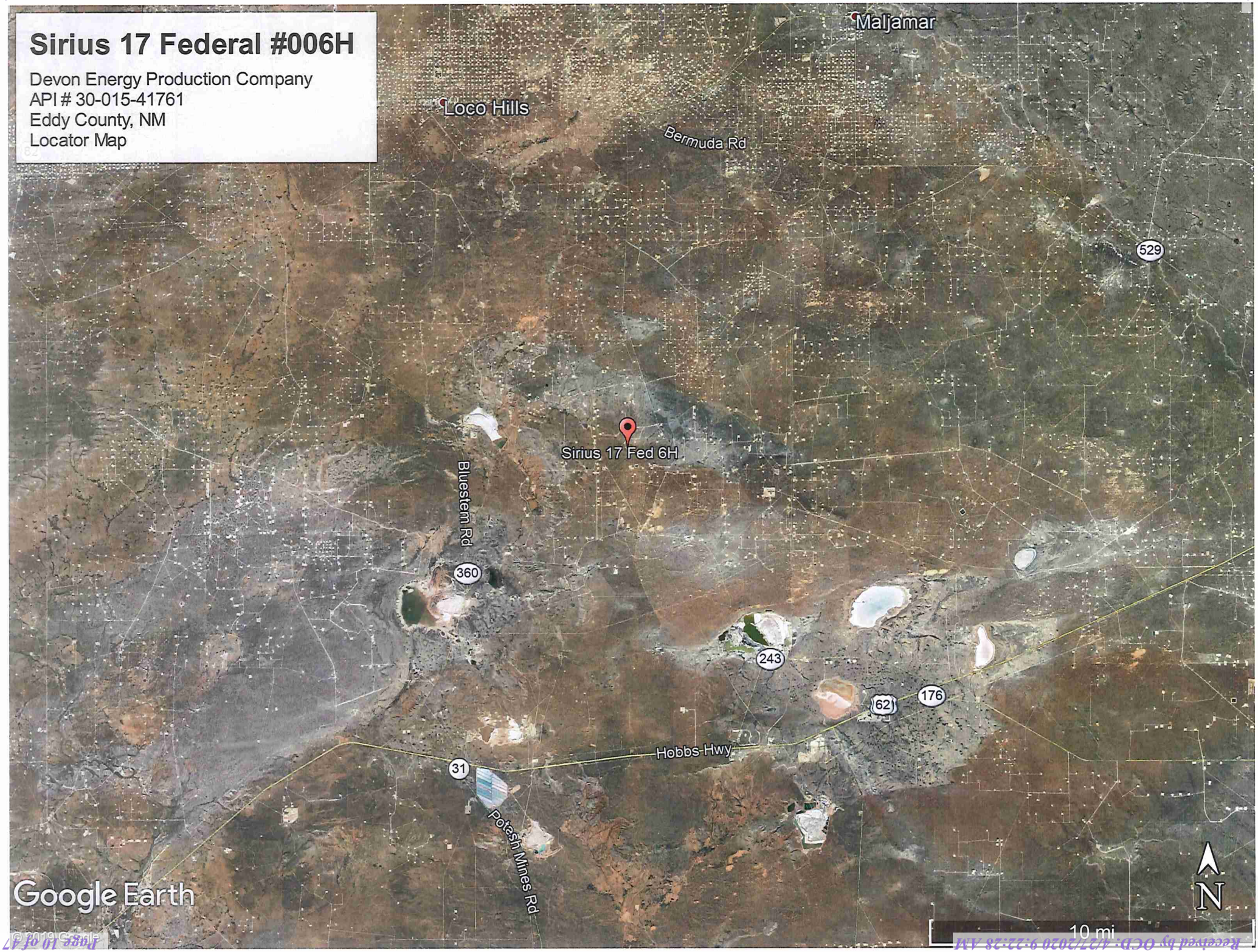




Sirius 17 Federal #006H

Devon Energy Production Company
API # 30-015-41761
Eddy County, NM
Topographic Map





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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	1550	120		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354	2721	400		
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322	2735	400		
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	3210	340	180	160
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	4018	231		
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	4232	200		
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	4429	630		
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E	605111	3610071*	4434	139		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	4799	630		
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E	605519	3609673*	4883	220	140	80

Average Depth to Water: **160 feet**

Minimum Depth: **140 feet**

Maximum Depth: **180 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 604690 **Northing (Y):** 3614485.47 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

2/10/20 9:12 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w6c
Elevation: 2,700 to 5,000 feet
Mean annual precipitation: 5 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wink

Setting

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

Typical profile

H1 - 0 to 8 inches: loamy fine sand
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 30 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A

Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Simona
Percent of map unit: 1 percent
Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Wink
Percent of map unit: 1 percent
Ecological site: Sandy (R042XC004NM)
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

FEMA

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 drainag areas of less than one square mile *Zone*
- 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
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone*

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

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/10/2020 at 10:49:24 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and 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 Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # *(assigned by OCD)*
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.66301 Longitude -103.8837
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sirius 17 Fed #6H	Site Type Oil
Date Release Discovered 11/24/2019	API# *(if applicable)* 30-015-41761

Unit Letter	Section	Township	Range	County
H	17	19S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) .5
☒ Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 1.5
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	1" nipple of pumping T developed a pin hole leak causing fluid release. All fluid stayed on location. See attachment for spill area calculation.	

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ 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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

This spill was not in containment.

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: Kendra DeHoyos Title: EHS Associate

Signature: Kendra DeHoyos Date: 12/03/2019

email: kendra.dehoyos@dvn.com Telephone: 575-748-3371

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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?	140 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
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: Environmental Project Manager

Signature: _____

Date: 2-19-20

email: cjones@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
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: 2-19-20

email: cjones@talonlpe.com — Telephone: 575-746-8768

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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: 2-19-20

email: cjones@talonlpe.com Telephone: 575-746-8768

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

Project Completed

APPENDIX V

LABORATORY DATA

Analytical Report 651630

for

Talon LPE-Artesia

Project Manager: Chris Jones

Sirius 17 Fed 6H

700794.302.01

02.10.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02.10.2020

Project Manager: **Chris Jones**
Talon LPE-Artesia
408 West Texas St.
Artesia, NM 88210

Reference: XENCO Report No(s): **651630**
Sirius 17 Fed 6H
Project Address: Eddy County

Chris Jones:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651630. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651630 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 651630

Talon LPE-Artesia, Artesia, NM

Sirius 17 Fed 6H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0-1' R	S	02.06.2020 14:00	0 - 1 ft	651630-001
S-2 0-1' R	S	02.06.2020 14:10	0 - 1 ft	651630-002
S-3 0-1' R	S	02.06.2020 14:15	0 - 1 ft	651630-003
S-4 0-1' R	S	02.06.2020 14:20	0 - 1 ft	651630-004
S-5 0-1' R	S	02.06.2020 14:25	0 - 1 ft	651630-005

CASE NARRATIVE

Client Name: Talon LPE-Artesia
Project Name: Sirius 17 Fed 6H

Project ID: *700794.302.01*
Work Order Number(s): *651630*

Report Date: *02.10.2020*
Date Received: *02.06.2020*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115846 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3115847 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3115992 Inorganic Anions by EPA 300/300.1
Lab Sample ID 651630-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 651630-001, -002, -003, -004, -005.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

XENCO LABORATORIES

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **S-1 0-1' R** Matrix: Soil Sample Depth: 0 - 1 ft

Lab Sample Id: 651630-001 Date Collected: 02.06.2020 14:00 Date Received: 02.06.2020 15:32

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**4760**	50.0	1.77	mg/kg	02.07.2020 08:45	X	5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	02.06.2020 21:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	**65.4**	50.3	11.5	mg/kg	02.06.2020 21:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**31.4**	50.3	11.5	mg/kg	02.06.2020 21:11	J	1
Total TPH	PHC635	**96.8**		11.5	mg/kg	02.06.2020 21:11		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115846 Date Prep: 02.06.2020 17:00

Prep seq: 7696136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000482	0.00198	0.000482	mg/kg	02.06.2020 20:35	U	1
Toluene	108-88-3	<0.000524	0.00198	0.000524	mg/kg	02.06.2020 20:35	U	1
Ethylbenzene	100-41-4	<0.000403	0.00198	0.000403	mg/kg	02.06.2020 20:35	U	1
m_p-Xylenes	179601-23-1	<0.000748	0.00397	0.000748	mg/kg	02.06.2020 20:35	U	1
o-Xylene	95-47-6	<0.000400	0.00198	0.000400	mg/kg	02.06.2020 20:35	U	1
Xylenes, Total	1330-20-7	<0.000400		0.000400	mg/kg	02.06.2020 20:35	U	
Total BTEX		<0.000400		0.000400	mg/kg	02.06.2020 20:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **S-2 0-1' R** Matrix: Soil Sample Depth: 0 - 1 ft

Lab Sample Id: 651630-002 Date Collected: 02.06.2020 14:10 Date Received: 02.06.2020 15:32

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**10600**	200	7.09	mg/kg	02.07.2020 09:01		20

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.2	13.9	mg/kg	02.06.2020 21:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	**48.4**	50.2	11.5	mg/kg	02.06.2020 21:31	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**24.8**	50.2	11.5	mg/kg	02.06.2020 21:31	J	1
Total TPH	PHC635	**73.2**		11.5	mg/kg	02.06.2020 21:31		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115846 Date Prep: 02.06.2020 17:00

Prep seq: 7696136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000482	0.00198	0.000482	mg/kg	02.06.2020 20:55	U	1
Toluene	108-88-3	<0.000524	0.00198	0.000524	mg/kg	02.06.2020 20:55	U	1
Ethylbenzene	100-41-4	<0.000403	0.00198	0.000403	mg/kg	02.06.2020 20:55	U	1
m_p-Xylenes	179601-23-1	<0.000748	0.00397	0.000748	mg/kg	02.06.2020 20:55	U	1
o-Xylene	95-47-6	<0.000400	0.00198	0.000400	mg/kg	02.06.2020 20:55	U	1
Xylenes, Total	1330-20-7	<0.000400		0.000400	mg/kg	02.06.2020 20:55	U	
Total BTEX		<0.000400		0.000400	mg/kg	02.06.2020 20:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **S-3 0-1' R** Matrix: Soil Sample Depth: 0 - 1 ft

Lab Sample Id: 651630-003 Date Collected: 02.06.2020 14:15 Date Received: 02.06.2020 15:32

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**17800**	202	7.14	mg/kg	02.07.2020 09:07		20

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	**15.2**	50.0	13.9	mg/kg	02.06.2020 21:51	J	1
Diesel Range Organics (DRO)	C10C28DRO	**159**	50.0	11.5	mg/kg	02.06.2020 21:51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**22.3**	50.0	11.4	mg/kg	02.06.2020 21:51	J	1
Total TPH	PHC635	**197**		11.4	mg/kg	02.06.2020 21:51		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	104	70 - 135	%		

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115846 Date Prep: 02.06.2020 17:00

Prep seq: 7696136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	02.06.2020 21:16	U	1
Toluene	108-88-3	<0.000529	0.00200	0.000529	mg/kg	02.06.2020 21:16	U	1
Ethylbenzene	100-41-4	<0.000407	0.00200	0.000407	mg/kg	02.06.2020 21:16	U	1
m_p-Xylenes	179601-23-1	<0.000755	0.00401	0.000755	mg/kg	02.06.2020 21:16	U	1
o-Xylene	95-47-6	<0.000404	0.00200	0.000404	mg/kg	02.06.2020 21:16	U	1
Xylenes, Total	1330-20-7	<0.000404		0.000404	mg/kg	02.06.2020 21:16	U	
Total BTEX		<0.000404		0.000404	mg/kg	02.06.2020 21:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **S-4 0-1' R** Matrix: Soil Sample Depth: 0 - 1 ft

Lab Sample Id: 651630-004 Date Collected: 02.06.2020 14:20 Date Received: 02.06.2020 15:32

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**4930**	50.2	1.78	mg/kg	02.07.2020 09:12		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	02.06.2020 21:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	**39.7**	50.3	11.5	mg/kg	02.06.2020 21:51	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**20.8**	50.3	11.5	mg/kg	02.06.2020 21:51	J	1
Total TPH	PHC635	**60.5**		11.5	mg/kg	02.06.2020 21:51		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115847 Date Prep: 02.06.2020 17:00

Prep seq: 7696180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000485	0.00200	0.000485	mg/kg	02.07.2020 07:07	U	1
Toluene	108-88-3	<0.000527	0.00200	0.000527	mg/kg	02.07.2020 07:07	U	1
Ethylbenzene	100-41-4	<0.000405	0.00200	0.000405	mg/kg	02.07.2020 07:07	U	1
m_p-Xylenes	179601-23-1	<0.000752	0.00399	0.000752	mg/kg	02.07.2020 07:07	U	1
o-Xylene	95-47-6	<0.000402	0.00200	0.000402	mg/kg	02.07.2020 07:07	U	1
Xylenes, Total	1330-20-7	<0.000402		0.000402	mg/kg	02.07.2020 07:07	U	
Total BTEX		<0.000402		0.000402	mg/kg	02.07.2020 07:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	70 - 130	%		
4-Bromofluorobenzene	121	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **S-5 0-1' R** Matrix: Soil Sample Depth: 0 - 1 ft

Lab Sample Id: 651630-005 Date Collected: 02.06.2020 14:25 Date Received: 02.06.2020 15:32

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**3270**	50.4	1.78	mg/kg	02.07.2020 09:18		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	**17.3**	49.8	13.8	mg/kg	02.06.2020 22:10	J	1
Diesel Range Organics (DRO)	C10C28DRO	**43.8**	49.8	11.4	mg/kg	02.06.2020 22:10	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**19.3**	49.8	11.4	mg/kg	02.06.2020 22:10	J	1
Total TPH	PHC635	**80.4**		11.4	mg/kg	02.06.2020 22:10		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115847 Date Prep: 02.06.2020 17:00

Prep seq: 7696180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	02.07.2020 07:27	U	1
Toluene	108-88-3	<0.000529	0.00200	0.000529	mg/kg	02.07.2020 07:27	U	1
Ethylbenzene	100-41-4	<0.000407	0.00200	0.000407	mg/kg	02.07.2020 07:27	U	1
m_p-Xylenes	179601-23-1	<0.000755	0.00401	0.000755	mg/kg	02.07.2020 07:27	U	1
o-Xylene	95-47-6	<0.000404	0.00200	0.000404	mg/kg	02.07.2020 07:27	U	1
Xylenes, Total	1330-20-7	<0.000404		0.000404	mg/kg	02.07.2020 07:27	U	
Total BTEX		<0.000404		0.000404	mg/kg	02.07.2020 07:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **7696136-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7696136-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115846 Date Prep: 02.06.2020 13:42

Prep seq: 7696136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	02.06.2020 11:45	U	1
Toluene	108-88-3	<0.000528	0.00200	0.000528	mg/kg	02.06.2020 11:45	U	1
Ethylbenzene	100-41-4	<0.000406	0.00200	0.000406	mg/kg	02.06.2020 11:45	U	1
m_p-Xylenes	179601-23-1	<0.000754	0.00400	0.000754	mg/kg	02.06.2020 11:45	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	02.06.2020 11:45	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	94	70 - 130	%		

Sample Id: **7696180-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7696180-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115847 Date Prep: 02.06.2020 17:00

Prep seq: 7696180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	02.06.2020 22:16	U	1
Toluene	108-88-3	<0.000528	0.00200	0.000528	mg/kg	02.06.2020 22:16	U	1
Ethylbenzene	100-41-4	<0.000406	0.00200	0.000406	mg/kg	02.06.2020 22:16	U	1
m_p-Xylenes	179601-23-1	<0.000754	0.00400	0.000754	mg/kg	02.06.2020 22:16	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	02.06.2020 22:16	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	70 - 130	%		
4-Bromofluorobenzene	96	70 - 130	%		

Certificate of Analytical Results
651630
Talon LPE-Artesia, Artesia, NM
Sirius 17 Fed 6H

Sample Id: **7696192-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7696192-1-BLK Date Collected: Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3115992 Date Prep: 02.07.2020 07:30

Prep seq: 7696192

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<0.354	10.0	0.354	mg/kg	02.07.2020 08:29	U	1

Sample Id: **7696210-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7696210-1-BLK Date Collected: Date Received:

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3115871 Date Prep: 02.06.2020 17:30

Prep seq: 7696210

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	02.07.2020 09:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	02.07.2020 09:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	02.07.2020 09:46	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: Sirius 17 Fed 6H

Work Orders : 651630 **Project ID:** 700794.302.01

Lab Batch #: 3115846 **Sample:** 7696136-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 11:45 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

Lab Batch #: 3115846 **Sample:** 7696136-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 12:05 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

Lab Batch #: 3115846 **Sample:** 7696136-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 12:26 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3115846 **Sample:** 651533-017 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 12:46 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0278	0.0300	93	70-130	

Lab Batch #: 3115846 **Sample:** 651533-017 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 13:07 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Sirius 17 Fed 6H

Work Orders : 651630 **Project ID:** 700794.302.01

Lab Batch #: 3115847 **Sample:** 7696180-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 22:16 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3115847 **Sample:** 7696180-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 22:36 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3115847 **Sample:** 7696180-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 22:57 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0293	0.0300	98	70-130	

Lab Batch #: 3115847 **Sample:** 651629-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 23:17 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

Lab Batch #: 3115847 **Sample:** 651629-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 23:38 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Sirius 17 Fed 6H

Work Orders : 651630 **Project ID:** 700794.302.01

Lab Batch #: 3115847 **Sample:** CCB / CCB **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.07.2020 04:23 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0306	0.0300	102	70-130	

Lab Batch #: 3115871 **Sample:** 7696210-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 20:51 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 3115871 **Sample:** 7696210-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.06.2020 20:51 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	54.9	50.0	110	70-135	

Lab Batch #: 3115871 **Sample:** 651630-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 21:11 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	101	126	70-135	
o-Terphenyl	58.3	50.3	116	70-135	

Lab Batch #: 3115871 **Sample:** 651630-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02.06.2020 21:31 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	99.7	122	70-135	
o-Terphenyl	61.5	49.9	123	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Sirius 17 Fed 6H

Work Orders : 651630 **Project ID:** 700794.302.01

Lab Batch #: 3115871 **Sample:** 7696210-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02.07.2020 09:46 **SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	52.8	50.0	106	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Sirius 17 Fed 6H

Work Order #: 651630 **Project ID:** 700794.302.01

Analyst: MAB **Date Prepared:** 02.06.2020 **Date Analyzed:** 02.06.2020

Lab Batch ID: 3115846 **Sample:** 7696136-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000486	0.100	0.124	124	0.100	0.123	123	1	70-130	35	
Toluene	<0.000528	0.100	0.114	114	0.100	0.113	113	1	70-130	35	
Ethylbenzene	<0.000406	0.100	0.110	110	0.100	0.110	110	0	71-129	35	
m_p-Xylenes	<0.000754	0.200	0.217	109	0.200	0.215	108	1	70-135	35	
o-Xylene	<0.000403	0.100	0.108	108	0.100	0.107	107	1	71-133	35	

Analyst: MAB **Date Prepared:** 02.06.2020 **Date Analyzed:** 02.06.2020

Lab Batch ID: 3115847 **Sample:** 7696180-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000486	0.100	0.108	108	0.100	0.110	110	2	70-130	35	
Toluene	<0.000528	0.100	0.104	104	0.100	0.105	105	1	70-130	35	
Ethylbenzene	<0.000406	0.100	0.0996	100	0.100	0.101	101	1	71-129	35	
m_p-Xylenes	<0.000754	0.200	0.204	102	0.200	0.209	105	2	70-135	35	
o-Xylene	<0.000403	0.100	0.103	103	0.100	0.105	105	2	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Sirius 17 Fed 6H

Work Order #: 651630 **Project ID:** 700794.302.01

Analyst: MAB **Date Prepared:** 02.07.2020 **Date Analyzed:** 02.07.2020

Lab Batch ID: 3115992 **Sample:** 7696192-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.354	250	251	100	250	250	100	0	90-110	20	

Analyst: DTH **Date Prepared:** 02.06.2020 **Date Analyzed:** 02.06.2020

Lab Batch ID: 3115871 **Sample:** 7696210-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	1060	106	1000	1140	114	7	70-135	35	
Diesel Range Organics (DRO)	<11.5	1000	968	97	1000	985	99	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Sirius 17 Fed 6H

Work Order # : 651630
Lab Batch ID: 3115846
Date Analyzed: 02.06.2020
Reporting Units: mg/kg

QC- Sample ID: 651533-017 S
Date Prepared: 02.06.2020

Batch #: 1
Analyst: MAB

Project ID: 700794.302.01
Matrix: Soil

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000485	0.0998	0.129	129	0.101	0.117	116	10	70-130	35	
Toluene	<0.000527	0.0998	0.118	118	0.101	0.107	106	10	70-130	35	
Ethylbenzene	<0.000405	0.0998	0.114	114	0.101	0.102	101	11	71-129	35	
m_p-Xylenes	<0.000752	0.200	0.223	112	0.202	0.200	99	11	70-135	35	
o-Xylene	<0.000402	0.0998	0.111	111	0.101	0.100	99	10	71-133	35	

Lab Batch ID: 3115847
Date Analyzed: 02.06.2020
Reporting Units: mg/kg

QC- Sample ID: 651629-001 S
Date Prepared: 02.06.2020

Batch #: 1
Analyst: MAB

Matrix: Soil

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000485	0.0998	0.111	111	0.0990	0.104	105	7	70-130	35	
Toluene	<0.000527	0.0998	0.104	104	0.0990	0.0985	99	5	70-130	35	
Ethylbenzene	<0.000405	0.0998	0.0982	98	0.0990	0.0932	94	5	71-129	35	
m_p-Xylenes	<0.000752	0.200	0.200	100	0.198	0.191	96	5	70-135	35	
o-Xylene	<0.000402	0.0998	0.101	101	0.0990	0.0961	97	5	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200*|(C-F) / (C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A) / E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Sirius 17 Fed 6H

Work Order # : 651630 **Project ID:** 700794.302.01

Lab Batch ID: 3115992 **QC- Sample ID:** 651630-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02.07.2020 **Date Prepared:** 02.07.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4760	200	4920	80	200	4920	80	0	90-110	20	X

Lab Batch ID: 3115992 **QC- Sample ID:** 651666-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02.07.2020 **Date Prepared:** 02.07.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	290	200	495	103	198	490	101	1	90-110	20	

Lab Batch ID: 3115871 **QC- Sample ID:** 651630-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02.06.2020 **Date Prepared:** 02.06.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<14.0	1010	1130	112	997	1130	113	0	70-135	35	
Diesel Range Organics (DRO)	65.4	1010	1210	113	997	1050	99	14	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200*|(C-F) / (C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A) / E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com

Work Order No: 451630

Page 1 of 1

Project Manager:	Chris Jones	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W Texas Ave	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575-746-8768	Email:	cjones@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Sirius 17 Fed 6H	Turn Around	
Project Number:	700794.302.01	Routine	☒
Project Location	Eddy County	Rush:	
Sampler's Name:	Brandon Sinclair	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes / No	Wet Ice:	Yes / No
Temperature (°C):	1.0	Thermometer ID	T-NM-007
Received Intact:	Yes / No		
Cooler Custody Seals:	Yes / No / N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes / No / N/A	Total Containers:	5

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH EXT	BTEX	Total Chlorides
	S-1 0-1' R	Soil	2-6-20	14:00	0-1'			X	X	X
	S-2 0-1' R			14:10	0-1'					
	S-3 0-1' R			14:15	0-1'					
	S-4 0-1' R			14:20	0-1'					
	S-5 0-1' R			14:25	0-1'					

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day received by the lab, if received by 4:00pm

Sample Comments

cc bsinclair@talonlpe.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2/6/20 15:32	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.000

Page 21 of 22

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia

Date/ Time Received: 02.06.2020 03.32.00 PM

Work Order #: 651630

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.06.2020

Checklist reviewed by: Jessica Kramer Date: 02.07.2020