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## Closure Report

White Swan 9 Federal #1  
Lea County, New Mexico  
API# 30-025-32000  
1RP-4955

## Prepared For:

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

## Prepared By:

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

**April 30, 2020**

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

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

Subject:     **Closure Report**  
              White Swan 9 Federal #1  
              Lea County, New Mexico  
              API# 30-025-32000  
              1RP-4955

Dear Mr. Amos & Mr. Bratcher,

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

### Site Information

The White Swan 9 Federal #1 is located approximately thirty-two (32) miles east of Carlsbad, New Mexico. The legal location for this release is Unit Letter P, Section 9, Township 22 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.399542 North and -103.672578 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 Simona fine sandy loam with 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of eoilian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well drained.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 360-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is not located within a high 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.

<b>Approximate Depth to Groundwater</b>	<b>360 Feet/BGS</b>
---	---------------------

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

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

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

## Incident Description

On January 21, 2018, the lease operator arrived at the location and noticed oil coming out of the thief hatch of the tank. The operator opened the valve to another tank to lower the filled tanks level and stopped the leak. Approximately 31.89 barrels (bbls) of oil spilled and misted onto the pad and adjacent pasture. A vac truck was dispatched and recovered approximately 16 bbls. Remediation order 1RP-4955 was assigned. The site map is presented in [Appendix I](#).

On March 30, 2020, Talon mobilized personnel to the site conducting a site assessment and collecting soil samples. Sample locations are shown on the attached site map and the results of our sampling event are presented in the following data table.

## Soil Sampling

### 3-30-20 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	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	3/30/2020	0	ND	ND	ND	896	473	1369	1230
		0.5	ND	ND	ND	ND	ND	ND	160
		1	ND	ND	ND	ND	ND	ND	80
		2-R	ND	ND	ND	ND	ND	ND	112
S-2		0	ND	ND	ND	ND	ND	ND	576
		0.5	ND	ND	ND	15.5	ND	15.5	144
		1	ND	ND	ND	ND	ND	ND	144
		1.5-R	ND	ND	ND	ND	ND	ND	192
S-3		0	ND	ND	ND	ND	ND	ND	32
		0.5	ND	ND	ND	ND	ND	ND	32
		1	ND	ND	ND	ND	ND	ND	16
		2-R	ND	ND	ND	ND	ND	ND	32
S-4		0	ND	ND	ND	ND	ND	ND	ND
		0.5	ND	ND	ND	ND	ND	ND	32
		1	ND	ND	ND	ND	ND	ND	16
		1.5-R	ND	ND	ND	ND	ND	ND	32
BG-1		0	ND	ND	ND	ND	ND	ND	80
BG-3		0	ND	ND	ND	ND	ND	ND	16
BG-4		0	ND	ND	ND	ND	ND	ND	ND
BG-5		0	ND	ND	ND	ND	ND	ND	16

ND-Analyte Not Detected

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

### Remedial Actions

- Based upon the results of our sampling event, none of the analytical results exceeded the NMOCD clean up criteria for this site. Therefore there was no need for soil remediation activities.

### Closure

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

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

Respectfully submitted,

TALON/LPE



Chris Jones  
Project Manager

David J.  
Adkins

Digitally signed by David J. Adkins  
DN: cn=David J. Adkins, o=Talon/  
LPE, ou=District Manager,  
email=da@talonlpe.com,  
c=US  
Date: 2020.05.04 16:44:09 -0500

David J. Adkins  
District Manager

#### Attachments:

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



# **APPENDIX I**

**SITE MAP**

**KARST MAP**

**TOPO MAP**

**LOCATION MAP**

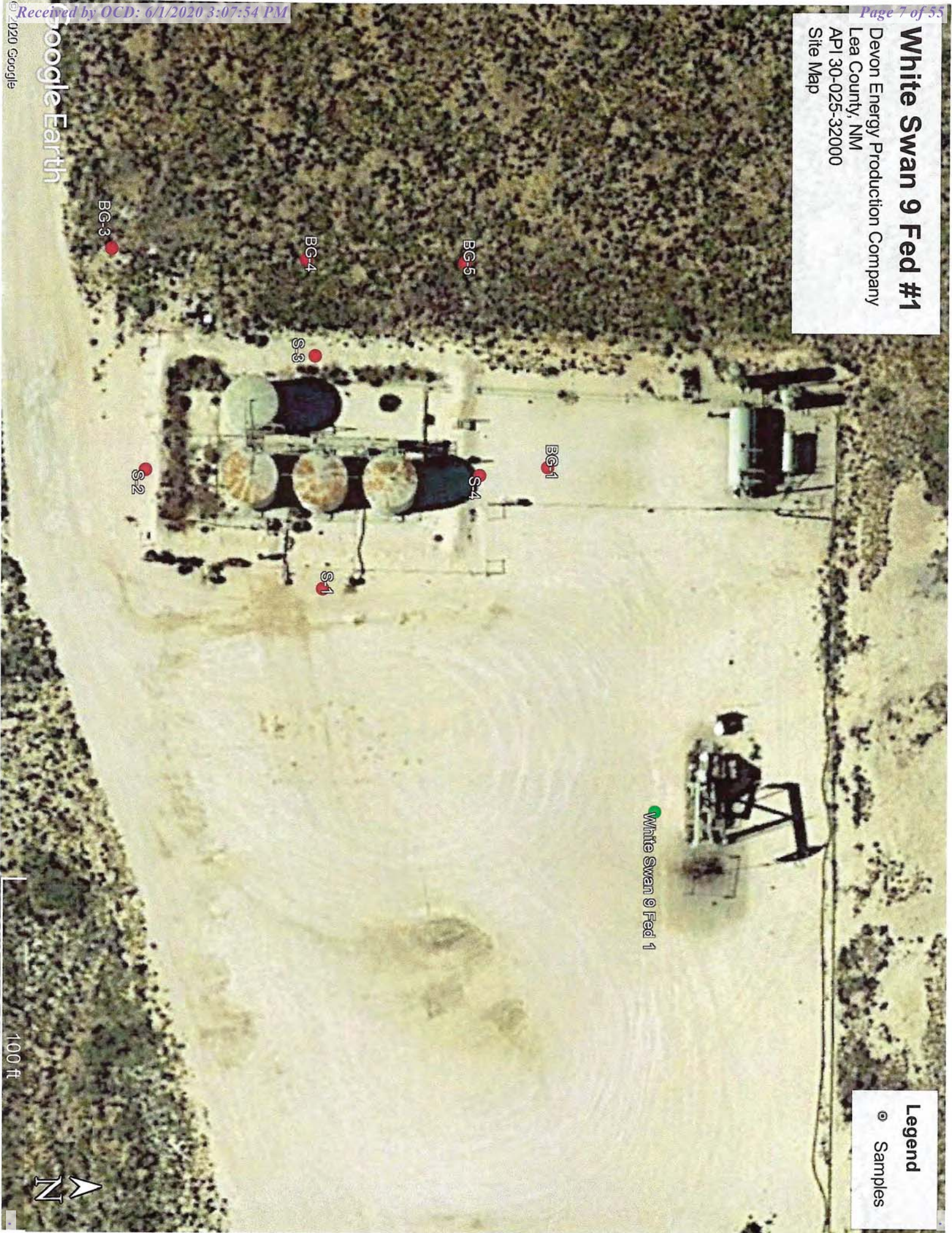


**White Swan 9 Fed #1**  
Devon Energy Production Company  
Lea County, NM  
API 30-025-32000  
Site Map

**Legend**  
● Samples

White Swan 9 Fed 1

Google Earth



100 ft



**White Swan 9 Fed #1**  
Devon Energy Production Company  
Lea County, NM  
API 30-025-32000  
Karst Map

E-38

W Garfield Hwy

White Swan 9 Fed 1

Del Hwy

Google Earth

2020 Google

128

10 mi





**White Swan 9 Fed #1**  
Devon Energy Production Company  
Lea County, NM  
API 30-025-32000  
TOPO Map



128

10-091

N



**White Swan 9 Fed #1**  
Devon Energy Production Company  
Lea County, NM  
API 30-025-32000  
Locator Map



Google Earth

© 2020 Google

10 mi







## **APPENDIX II**

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# **FEMA FLOOD ZONE**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 03717 POD1	C	LE	4	4	1	09	22S	32E			624094	3586365	1145	650		
C 02096	CUB	ED	2	3	14	22S	32E				627204	3584464*	2579	435	360	75
C 02821	C	LE	2	2	3	14	22S	32E			627303	3584563*	2633	540	340	200

Average Depth to Water: 350 feet

Minimum Depth: 340 feet

Maximum Depth: 360 feet

Record Count: 3

UTM NAD83 Radius Search (in meters):

Easting (X): 624841

Northing (Y): 3585497.675

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 11:01 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes—Lea County, New Mexico

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## Lea County, New Mexico

### SE—Simona fine sandy loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* dmr2  
*Elevation:* 3,000 to 4,200 feet  
*Mean annual precipitation:* 10 to 15 inches  
*Mean annual air temperature:* 58 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Simona and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Simona

##### Setting

*Landform:* Plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 8 inches:* fine sandy loam  
*Bk - 8 to 16 inches:* gravelly fine sandy loam  
*Bkm - 16 to 26 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Natural drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 35 percent  
*Gypsum, maximum in profile:* 1 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 2.0  
*Available water storage in profile:* Very low (about 2.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6s

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes—Lea County, New Mexico

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: Shallow Sandy (R042XC002NM)*  
*Hydric soil rating: No*

#### **Minor Components**

##### **Kimbrough**

*Percent of map unit: 8 percent*  
*Ecological site: Very Shallow 16-21" PZ (R077CY037TX)*  
*Hydric soil rating: No*

##### **Lea**

*Percent of map unit: 7 percent*  
*Ecological site: Limy Upland 16-21" PZ (R077CY028TX)*  
*Hydric soil rating: No*

### **Data Source Information**

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 16, Sep 15, 2019





## 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, AE, AH, VE, AR With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
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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 X
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

NO SCREEN Effective LOMRs
Area of Minimal Flood Hazard Zone X
Area of Undetermined Flood Hazard Zone X
Channel, Culvert, or Storm Sewer STRUCTURES Levee, Dike, or Floodwall

20.2 17.5 Water Surface Elevation
Cross Sections with 1% Annual Chance
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

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 1:17:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and 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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Wes Ryan, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-390-5436
Facility Name White Swan 9 Federal 1	Facility Type Oil
Surface Owner Federal	Mineral Owner Federal
API No. 30-025-32000	

### LOCATION OF RELEASE

Unit Letter P	Section 9	Township 22S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude\_32.399542\_ Longitude\_103.672578\_ NAD83

### NATURE OF RELEASE

Type of Release Oil	Volume of Release 31.89 bbls	Volume Recovered 16bbls
Source of Release Oil tank	Date and Hour of Occurrence January 21, 2018 @ 2:02 PM MST	Date and Hour of Discovery January 21, 2018 @ 2:02 PM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, OCD Shelly Tucker, BLM	
By Whom? Mike Shoemaker, EHS Representative	Date and Hour January 22, 2018 @ 10:55 AM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* The lease operator arrived at the location and saw oil coming out thief hatch at the battery. The lease operator opened the bs line to lower the level in the tank.		
Describe Area Affected and Cleanup Action Taken.* Approximately 31.89 bbl of oil spilled/misted to the pad surface and the adjacent pasture. Approximately 16 bbls was recovered via a dispatched vacuum truck. An environmental contractor will be contacted to assist with the delineation and remediation of the affected surface.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: <i>Michael Shoemaker</i>		<b><u>OIL CONSERVATION DIVISION</u></b>
Printed Name: Michael Shoemaker		
Title: Environmental Professional	Approval Date:	Expiration Date:
E-mail Address: mike.shoemaker@dvn.com	Conditions of Approval:	
Date: 02/01/18 Phone: 575.748.3371	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



District I  
1625 N. French Dr., Hobbs, NM 88240  
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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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report ☐ Final Report ☒

Name of Company	Devon Energy Production Company	Contact	Amanda Davis Environmental Representative
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-748-0176
Facility Name	White Swan 9 Federal 1	Facility Type	Oil

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-025-32000
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	9	22S	32E					Lea

Latitude 32.399542 Longitude 103.672578 NAD83

#### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	31.89 bbls	Volume Recovered	16bbls
Source of Release	Oil tank	Date and Hour of Occurrence	January 21, 2018 @ 2:02 PM MST	Date and Hour of Discovery	January 21, 2018 @ 2:02 PM MST
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required If YES, To Whom? Olivia Yu, OCD Shelly Tucker, BLM				
By Whom?	Mike Shoemaker, EHS Representative Date and Hour January 22, 2018 @ 10:55 AM MST				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, Volume Impacting the Watercourse. N/A				

If a Watercourse was Impacted, Describe Fully.\*  
N/A


Describe Cause of Problem and Remedial Action Taken.\*

The lease operator arrived at the location and saw oil coming out thief hatch at the battery. The lease operator opened the bs line to lower the level in the tank. Soil samples were taken and analyzed at Cardinal Laboratory and levels were below NMOCD closure criteria.

Describe Area Affected and Cleanup Action Taken.\*

Approximately 31.89 bbl of oil spilled/misted to the pad surface and the adjacent pasture. Approximately 16 bbls was recovered via a dispatched vacuum truck.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chris Jones		Approved by Environmental Specialist:	
Title: Environmental Project Manager		Approval Date:	Expiration Date:
E-mail Address: cjones@talonlpe.com		Conditions of Approval:	
Date: 4-15-20 Phone: 575.631.6977		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



## APPENDIX IV

# LABORATORY DATA



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

---

April 08, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WHITE SWAN 9 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/01/20 14:40.

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 0'	H000972-01	Soil	30-Mar-20 11:00	01-Apr-20 14:40
S - 1 0.5'	H000972-02	Soil	30-Mar-20 11:05	01-Apr-20 14:40
S - 1 1'	H000972-03	Soil	30-Mar-20 11:10	01-Apr-20 14:40
S - 1 2' R	H000972-04	Soil	30-Mar-20 11:15	01-Apr-20 14:40
S - 2 0'	H000972-05	Soil	30-Mar-20 11:25	01-Apr-20 14:40
S - 2 0.5'	H000972-06	Soil	30-Mar-20 11:30	01-Apr-20 14:40
S - 2 1'	H000972-07	Soil	30-Mar-20 11:35	01-Apr-20 14:40
S - 2 1.5' R	H000972-08	Soil	30-Mar-20 11:40	01-Apr-20 14:40
S - 3 0'	H000972-09	Soil	30-Mar-20 11:50	01-Apr-20 14:40
S - 3 0.5'	H000972-10	Soil	30-Mar-20 11:55	01-Apr-20 14:40
S - 3 1'	H000972-11	Soil	30-Mar-20 12:00	01-Apr-20 14:40
S - 3 2' R	H000972-12	Soil	30-Mar-20 12:05	01-Apr-20 14:40
S - 4 0'	H000972-13	Soil	30-Mar-20 12:15	01-Apr-20 14:40
S - 4 0.5'	H000972-14	Soil	30-Mar-20 12:20	01-Apr-20 14:40
S - 4 1'	H000972-15	Soil	30-Mar-20 12:25	01-Apr-20 14:40
S - 4 1.5' R	H000972-16	Soil	30-Mar-20 12:30	01-Apr-20 14:40
BG - 1	H000972-17	Soil	30-Mar-20 12:40	01-Apr-20 14:40
BG - 3	H000972-19	Soil	30-Mar-20 12:55	01-Apr-20 14:40
BG - 4	H000972-20	Soil	30-Mar-20 13:05	01-Apr-20 14:40
BG - 5	H000972-21	Soil	30-Mar-20 13:15	01-Apr-20 14:40

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 or 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 1 0'**  
**H000972-01 (Soil)**

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

<b>Chloride</b>	<b>1230</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.3 %	73.3-129	0040208	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	896	10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	473	10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane	86.0 %	44.3-144	0040204	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane	112 %	42.2-156	0040204	MS	02-Apr-20	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 1 0.5'**  
**H000972-02 (Soil)**

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

Chloride	160		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129 0040208 MS 02-Apr-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane 96.1 % 44.3-144 0040204 MS 02-Apr-20 8015B

Surrogate: 1-Chlorooctadecane 100 % 42.2-156 0040204 MS 02-Apr-20 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 1 1'**  
**H000972-03 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.5 %	73.3-129		0040208	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	44.3-144		0040204	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	42.2-156		0040204	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 1 2' R**  
**H000972-04 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.2 %		73.3-129	0040208	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.8 %		44.3-144	0040204	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		42.2-156	0040204	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 2 0'****H000972-05 (Soil)**

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

Chloride	576		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.2 %	73.3-129		0040208	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			87.0 %	44.3-144		0040204	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			90.2 %	42.2-156		0040204	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 2 0.5'**  
**H000972-06 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040208	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040208	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		73.3-129	0040208	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.5</b>		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.0 %		44.3-144	0040209	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.2 %		42.2-156	0040209	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 2 1'****H000972-07 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.5 %	44.3-144		0040209	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.8 %	42.2-156		0040209	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 2 1.5' R**  
**H000972-08 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.1 %	44.3-144		0040209	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %	42.2-156		0040209	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 3 0'****H000972-09 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			94.9 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			98.0 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 3 0.5'**  
**H000972-10 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.7 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 3 1'**  
**H000972-11 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.1 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 3 2' R**  
**H000972-12 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			94.5 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			97.8 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 4 0'**  
**H000972-13 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		73.3-129	0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			87.0 %		44.3-144	0040207	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			87.0 %		42.2-156	0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 4 0.5'**  
**H000972-14 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		73.3-129	0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.3 %		44.3-144	0040207	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.2 %		42.2-156	0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 4 1'**  
**H000972-15 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.2 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.3 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**S - 4 1.5' R**  
**H000972-16 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	0040215	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040207	MS	02-Apr-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.1 %	44.3-144		0040207	MS	02-Apr-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.5 %	42.2-156		0040207	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**BG - 1****H000972-17 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	0040307	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040204	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			90.9 %	44.3-144		0040204	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			94.8 %	42.2-156		0040204	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**BG - 3****H000972-19 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	0040307	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	73.3-129		0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			81.7 %	44.3-144		0040209	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			88.8 %	42.2-156		0040209	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**BG - 4****H000972-20 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	0040307	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.3 %		73.3-129	0040218	MS	02-Apr-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane			86.9 %		44.3-144	0040209	MS	02-Apr-20	8015B	
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Surrogate: 1-Chlorooctadecane			92.0 %		42.2-156	0040209	MS	02-Apr-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**BG - 5****H000972-21 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	0040307	AC	03-Apr-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0040218	MS	02-Apr-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0040218	MS	02-Apr-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129 0040218 MS 02-Apr-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0040209	MS	02-Apr-20	8015B	

Surrogate: 1-Chlorooctane 87.4 % 44.3-144 0040209 MS 02-Apr-20 8015B

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156 0040209 MS 02-Apr-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0040215 - 1:4 DI Water</b>										
<b>Blank (0040215-BLK1)</b>				Prepared & Analyzed: 02-Apr-20						
Chloride	ND	16.0	mg/kg							
<b>LCS (0040215-BS1)</b>				Prepared & Analyzed: 02-Apr-20						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (0040215-BSD1)</b>				Prepared & Analyzed: 02-Apr-20						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
<b>Batch 0040307 - 1:4 DI Water</b>										
<b>Blank (0040307-BLK1)</b>				Prepared & Analyzed: 03-Apr-20						
Chloride	ND	16.0	mg/kg							
<b>LCS (0040307-BS1)</b>				Prepared & Analyzed: 03-Apr-20						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (0040307-BSD1)</b>				Prepared & Analyzed: 03-Apr-20						
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0040208 - Volatiles****Blank (0040208-BLK1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.8	73.3-129			

**LCS (0040208-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	2.09	0.050	mg/kg	2.00		105	72.2-131			
Toluene	2.12	0.050	mg/kg	2.00		106	71.7-126			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	68.9-126			
Total Xylenes	6.28	0.150	mg/kg	6.00		105	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	73.3-129			

**LCS Dup (0040208-BSD1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	2.02	0.050	mg/kg	2.00		101	72.2-131	3.76	14.6	
Toluene	2.04	0.050	mg/kg	2.00		102	71.7-126	3.87	17.4	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	4.04	18.9	
Total Xylenes	6.02	0.150	mg/kg	6.00		100	71.4-125	4.32	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.3-129			

**Batch 0040218 - Volatiles****Blank (0040218-BLK1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0040218 - Volatiles****LCS (0040218-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	2.17	0.050	mg/kg	2.00		108	72.2-131			
Toluene	2.17	0.050	mg/kg	2.00		108	71.7-126			
Ethylbenzene	2.19	0.050	mg/kg	2.00		109	68.9-126			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	73.3-129			

**LCS Dup (0040218-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

Benzene	1.99	0.050	mg/kg	2.00		99.7	72.2-131	8.35	14.6	
Toluene	2.00	0.050	mg/kg	2.00		99.9	71.7-126	8.12	17.4	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	8.33	18.9	
Total Xylenes	5.88	0.150	mg/kg	6.00		97.9	71.4-125	8.48	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0040204 - General Prep - Organics****Blank (0040204-BLK1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.3	44.3-144			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.6	42.2-156			

**LCS (0040204-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	185	10.0	mg/kg	200		92.7	78.8-127			
DRO >C10-C28	178	10.0	mg/kg	200		89.1	80-132			
Total TPH C6-C28	364	10.0	mg/kg	400		90.9	81.3-128			
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	44.3-144			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	42.2-156			

**LCS Dup (0040204-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	185	10.0	mg/kg	200		92.7	78.8-127	0.00809	15.1	
DRO >C10-C28	181	10.0	mg/kg	200		90.6	80-132	1.72	17.1	
Total TPH C6-C28	367	10.0	mg/kg	400		91.7	81.3-128	0.852	15	
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.7	44.3-144			
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	42.2-156			

**Batch 0040207 - General Prep - Organics****Blank (0040207-BLK1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	44.3-144			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.6	42.2-156			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0040207 - General Prep - Organics****LCS (0040207-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	187	10.0	mg/kg	200		93.3	78.8-127		
DRO >C10-C28	184	10.0	mg/kg	200		91.8	80-132		
Total TPH C6-C28	370	10.0	mg/kg	400		92.6	81.3-128		
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	44.3-144		
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.1	42.2-156		

**LCS Dup (0040207-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	191	10.0	mg/kg	200		95.4	78.8-127	2.26	15.1
DRO >C10-C28	194	10.0	mg/kg	200		97.2	80-132	5.64	17.1
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	81.3-128	3.95	15
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.5	44.3-144		
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.5	42.2-156		

**Batch 0040209 - General Prep - Organics****Blank (0040209-BLK1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.7	44.3-144		
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.2	42.2-156		

**LCS (0040209-BS1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	167	10.0	mg/kg	200		83.7	78.8-127		
DRO >C10-C28	163	10.0	mg/kg	200		81.7	80-132		
Total TPH C6-C28	331	10.0	mg/kg	400		82.7	81.3-128		
Surrogate: 1-Chlorooctane	42.0		mg/kg	50.0		84.0	44.3-144		
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	42.2-156		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: WHITE SWAN 9 FED 1  
Project Number: 700794.329.01  
Project Manager: CHRIS JONES  
Fax To: (575) 745-8905

Reported:  
08-Apr-20 12:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0040209 - General Prep - Organics****LCS Dup (0040209-BSD1)**

Prepared &amp; Analyzed: 02-Apr-20

GRO C6-C10	195	10.0	mg/kg	200		97.6	78.8-127	15.3	15.1	QR-02
DRO >C10-C28	184	10.0	mg/kg	200		92.0	80-132	12.0	17.1	
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	81.3-128	13.6	15	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.5	44.3-144			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0		98.2	42.2-156			

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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

Company Name: TALON CP		P.O. #: 700794.329.01		ANALYSIS REQUEST	
Project Manager: C. JONES		Company: TALON CP			
Address: 408 W. TEXAS AVE		City: G. JONES			
City: ARTESIA		State: NM Zip: 88210			
Phone #: 575-631-6477		Fax #:			
Project #: 700794.329.01		Project Owner: DEVON			
Project Name: WHITE SWAN 9 FEB1		City:			
Project Location: LEA COUNTY		State: Zip:			
Sampler Name: MICHAEL COUSER		Phone #:			
Fax #:					
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D. Sample I.D.		MATERIAL			
H000972		(G)RAB OR (C)OMP.			
1		# CONTAINERS			
2		GROUNDWATER			
3		WASTEWATER			
4		SOIL			
5		OIL			
6		SLUDGE			
7		OTHER:			
8		ACID/BASE:			
9		ICE / COOL			
10		OTHER:			
11		DATE			
12		TIME			
13		BTEX			
14		TPH			
15		TOTAL CHLORIDES			
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Relinquished By:	Date: 4-1-20	Received By:	Date: 4-1-20
Relinquished By:	Time: 1:03	Received By:	Time: 1:03
Relinquished By:	Date: 4-1-20	Received By:	Date: 4-1-20
Relinquished By:	Time: 1:03	Received By:	Time: 1:03

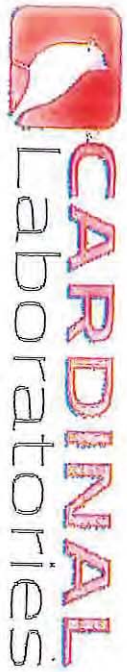
Re 10F3

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

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





101 East Maryland, Hobbs, NM 88240  
(575) 383-2326 FAX (575) 383-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: TALON CPE		P.O. #: 70074, 329.01	
Project Manager: C. JONES		Company: TALON CPE	
Address: 408 W. TEXAS AVE		Attn: C. JONES	
City: ARTESIA		Address:	
Phone #: 575-631-6477		City:	
Fax #: 575-631-6477		State:	
Project #: 70074, 329.01		Zip:	
Project Name: WHITE SWAN 9 FENI		Phone #:	
Project Location: LEA COUNTY		Fax #:	
Sampler Name: MICHAEL COLLIER			

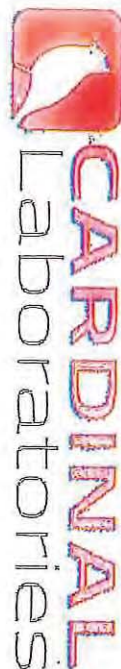
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS REQUEST		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL			OTHER:	BTEX	TPH
4000912	S-3 1'	G	1									3/30/20	12:00pm			
11	S-3 2'R	G	1									3/30/20	12:05pm			
12	S-4 0'	G	1									3/30/20	12:15pm			
13	S-4 0.5'	G	1									3/30/20	12:20pm			
14	S-4 1'	G	1									3/30/20	12:25pm			
15	S-4 1.5'R	G	1									3/30/20	12:30pm			
16	B4-1	G	1									3/30/20	12:40pm			
17	B4-2	G	1									3/30/20	12:50pm			
18	B4-3	G	1									3/30/20	12:55pm			
19	B4-4	G	1									3/30/20	1:05pm			

Relinquished By: <i>Michael Collier</i>	Date: 6-1-20	Time: 12:03	Received By: <i>Michael Collier</i>	Date: 6-1-20	Time: 12:03
Delivered By: (Circle One)	Date: 6-1-20	Time: 12:03	Received By: <i>Michael Collier</i>	Date: 6-1-20	Time: 12:03
Sampler - UPS - Bus - Other: <i>UPS #113</i>	Date: 6-1-20	Time: 12:03	Sampler Condition: <i>Good</i>	Checked By: <i>Michael Collier</i>	Date: 6-1-20
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS: <i>Re 2053</i>					

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 383-2326





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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	nOY1803742692
District RP	1RP-4955
Facility ID	
Application ID	pOY1803742877

## 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?	>100 (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

Incident ID	nOY1803742692
District RP	1RP-4955
Facility ID	
Application ID	pOY1803742877

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.

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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/5/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**OCD Only**

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

Incident ID	nOY1803742692
District RP	1RP-4955
Facility ID	
Application ID	pOY1803742877

## 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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/5/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**OCD Only**

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

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

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

Incident ID	nOY1803742692
District RP	1RP-4955
Facility ID	
Application ID	pOY1803742877

## 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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/5/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**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: \_\_\_\_\_