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## Closure Report

Shinnery Oaks SWD  
Eddy, New Mexico  
Incident # **nAPP2216632989**  
E-02-21S-28E

## Prepared For:

Matador Production Company  
One Lincoln Center  
Dallas, TX 75240

## Prepared By:

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

**July 28, 2022**



Rob Hamlet  
NMOCD  
Artesia, NM

Subject: **Closure Report**  
**Shinnery Oaks SWD**  
Eddy County, New Mexico  
Incident # **nAPP2216632989**

Dear Sir,

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

### Site Information

The Shinnery Oaks SWD located approximately Eleven (11) miles east of Carlsbad, New Mexico. The legal description for the site of the release is Unit Letter E, Section 2, Township 21 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.513523 and -104.061813. A Site Location 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 Berino complex, with 0 to 3 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of Eolian and Piedmont deposits, Halocene to middle Pleistocene in age. Drainage courses in this area are typically well drained.

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 160 feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is not situated within a Karst area.

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

**Approximate Depth to Groundwater 160 Feet/bgs**

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

The referenced POD meets the NMOCD determination for depth in accordance to 19.15.11(A)(2) NMAC. Therefore, the reclamation for the upper 4 feet of this site per NMAC 19.15.29.13.D is as follows:

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
	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 June 14, 2022 approximately 45 bbls of produced water were released inside the containment. Approximately 42 bbls were recovered. The cause of release was due to equipment failure. A hydro-vac was immediately dispatched in order to remove all free standing fluid from the containment, pad area and minimize impact. Matador submitted a spill notification and subsequent C-141 to the NMOCD that assigned this incident no. **nAPP2216632989**. The C-141 is attached in Appendix V. The site map is presented in [Appendix I](#).

### Site Assessment

On June 14, 2022, Talon mobilized personnel to the site to conduct an initial site assessment. Representatives from Matador Resources were present in order to conduct a site safety walk. The exterior sides of the containment appeared to have salt crystallization on soil surfaces. The entire impacted area was mapped utilizing a handheld Trimble mapping device, photographed, and soil sampling commenced on the exterior sides of the containment utilizing a hand auger. All soil samples were retrieved on a composite basis, properly packaged, preserved, and transported to Eurofins Laboratories via chain of custody for analysis of Total Chlorides (EPA Method 300), TPH (Total Petroleum Hydrocarbons EPA Method 8015M), and BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes EPA Method 8021B). Sample locations are shown on the attached Figure ([Appendix I](#)), and the results of our sampling event are presented on the following data table.

**Table I**  
06/21/2022 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth ft.(BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
<b>NMOCD Table 1 Closure Criteria 19.15.29 NMAC</b>			<b>50 mg/kg</b>	<b>10 mg/kg</b>	<b>DRO + GRO combined = 2,500 mg/kg</b>			<b>2,500 mg/kg</b>	<b>20,000 mg/kg</b>
S1	6/14/2022	4'	ND	ND	ND	53.2	ND	53.2	7750
S2	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	155
S3	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	736
S4	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	5710
S5	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	268
BG1	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	140
BG2	6/14/2022	.6"R	ND	ND	ND	ND	ND	ND	7.24
BG3	6/14/2022	.6"R	ND	ND	ND	21.4	ND	ND	28.8
BG4	6/14/2022	.6"R	ND	ND	21.4	ND	ND	21.4	28.8

BG=Background Sample R=Auger Refusal

Full Laboratory Report is referenced in [Appendix IV](#)

On July 07, 2022 Talon personnel and mobilized to the Shinnery Oaks SWD in order to complete the vertical delineation of the impacted area. Utilizing Geo-push technology, a Geo probe advanced to 8 feet bgs in the area of S1, S3, and S4 (labeled as BH1, BH2, and BH 3). Talon personnel guided the depth with field titration data. Excavation activity for the impacted pad area also ensued. The impacted pad area was excavated from .5 feet to 1-foot bgs. All soil samples were collected, contained, preserved, and transported to Cardinal Laboratories for analysis of Chlorides, TPH, and BTEX. The samples positions are documented on Figure 2 in [Appendix I](#) of the site maps. The results of vertical delineation and the confirmation sampling event are tabulated below.

**Table II**  
07/18/2022 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	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO = 1000 mg/kg			2500 mg/kg	20000 mg/kg
S-1A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1120
S-2A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1180
S-3A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1390
S-4A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1090
S-5A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1330
S-6A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1460
S-7A	7/11/2022	1'	ND	ND	ND	ND	ND	-	1010
S-8A	7/11/2022	1'	ND	ND	ND	ND	16.3	16.3	1250
S-9A	7/11/2022	1'	ND	ND	ND	ND	13.5	13.5	176
S-10A	7/11/2022	1'	ND	ND	ND	ND	11	11	576
S-11A	7/11/2022	0.5'	ND	ND	ND	ND	10.1	10.1	112
S-12A	7/11/2022	0.5'	ND	ND	ND	ND	10.6	10.6	1570
S-13A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	6640
S-14A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	64
S-15A	7/11/2022	0.5'	ND	ND	ND	23.6	19.8	43.4	1740
S-16A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	1760
S-17A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	192
S-18A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	1470
S-19A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	1180
S-20A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	80
S-21A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	992
S-22A	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	192
SW-1	7/11/2022	1'	ND	ND	ND	ND	ND	-	112
SW-2	7/11/2022	1'	ND	ND	ND	ND	ND	-	112
SW-3	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	112
SW-4	7/11/2022	0.5'	ND	ND	ND	ND	ND	-	80
BH-1	7/11/2022	5'	ND	ND	ND	ND	ND	-	1060
BH-1	7/11/2022	6'	ND	ND	ND	ND	ND	-	944
BH-1	7/11/2022	7'	ND	ND	ND	ND	ND	-	704
BH-1	7/11/2022	8'	ND	ND	ND	ND	ND	-	208
BH-2	7/11/2022	1'	ND	ND	ND	ND	ND	-	96
BH-2	7/11/2022	2'	ND	ND	ND	ND	ND	-	64
BH-2	7/11/2022	3'	ND	ND	ND	ND	ND	-	80
BH-2	7/11/2022	4'	ND	ND	ND	ND	ND	-	64
BH-3	7/11/2022	1'	ND	ND	ND	ND	ND	-	1920
BH-3	7/11/2022	2'	ND	ND	ND	ND	ND	-	1500
BH-3	7/11/2022	3'	ND	ND	ND	ND	ND	-	304
BH-3	7/11/2022	4'	ND	ND	ND	ND	ND	-	192

ND = Analyte Not Detected

SW = Sidewall Sample

BH = Borehole Sample

See Appendix IV for the complete report of laboratory results.

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## Remedial Actions

- The initial assessment revealed that fluid had escaped the Falcon containment through the corners of containment on the west side traversing to exterior containment pad area as referenced on site map ([Appendix 1](#)).
- Due to safety concerns and constraints, all lines and electrical infrastructure were Hydro vacked and hand excavated to depths of 2-4 feet bgs.
- Background and sidewall samples were collected on a composite basis, and analyzed in order to verify that horizontal remediation had been achieved in accordance with NMOCD clean-up criteria.
- Vertical delineation was achieved at the sources and throughout the spill footprint. All analyte levels for Total Chlorides were below the NMOCD Table I soil remediation levels for this site.
- Due to the referenced depth to groundwater the upper four feet of the impacted area have been reclaimed in accordance with the NMOCD table I guidelines.
- All contaminated soil, approximately 377.84 yards was transported to Lea Landfill, furthermore the liquid state contamination from the Hydrovac was disposed of at R360, also a NMOCD approved solid waste disposal facility.
- The excavated pad area was backfilled with clean caliche transported from Lea Landfill. as this is a high-volume traffic area the pad was packed, and restored to grade.

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## Closure

On behalf of Matador Resources, Inc., we respectfully submit this closure report for the referenced incident. Based on this site characterization, remedial actions completed, and analytical results, we request that no further action be required.

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

Respectfully submitted,

Talon/LPE

Rebecca S. Pons  
Senior Environmental Project Manager

Attachments:

Appendix I Site Plans  
Appendix II Groundwater Data, Soil Survey  
Appendix III Photographic Documentation  
Appendix IV Laboratory Data  
Appendix V NMOCD File-C141



## Appendix I

### Site Maps

**Matador Resources**

Shinnery Oaks SWD  
Eddy County, NM  
Vicinity Map

**Legend**

-  Judah Disposal
-  Shinnery Oaks SWD



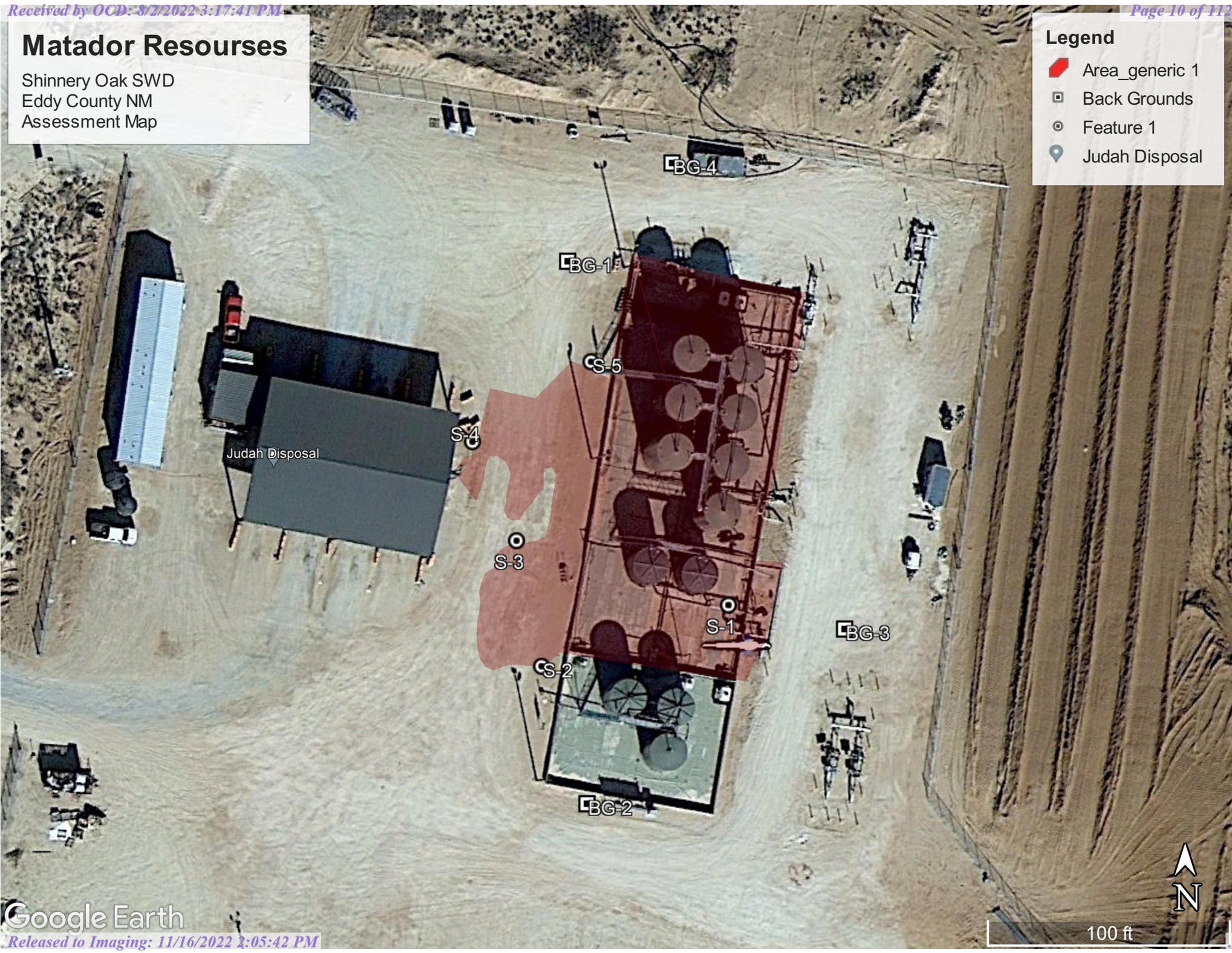
1000 ft

# Matador Resources

Shinnery Oak SWD  
Eddy County NM  
Assessment Map

**Legend**

- Area\_generic 1
- Back Grounds
- Feature 1
- 📍 Judah Disposal



100 ft

# Matador Resources

Shinnery Oaks SWD  
Eddy County, NM  
Confirmation Map

- Excavated Area
- Borehole Position
- Judah Disposal
- Sample Position

Judah Disposal



BH-1



60 ft

# Matador Resources

Shinnery Oaks SWD  
Eddy County, NM  
Karst Map

**Legend**

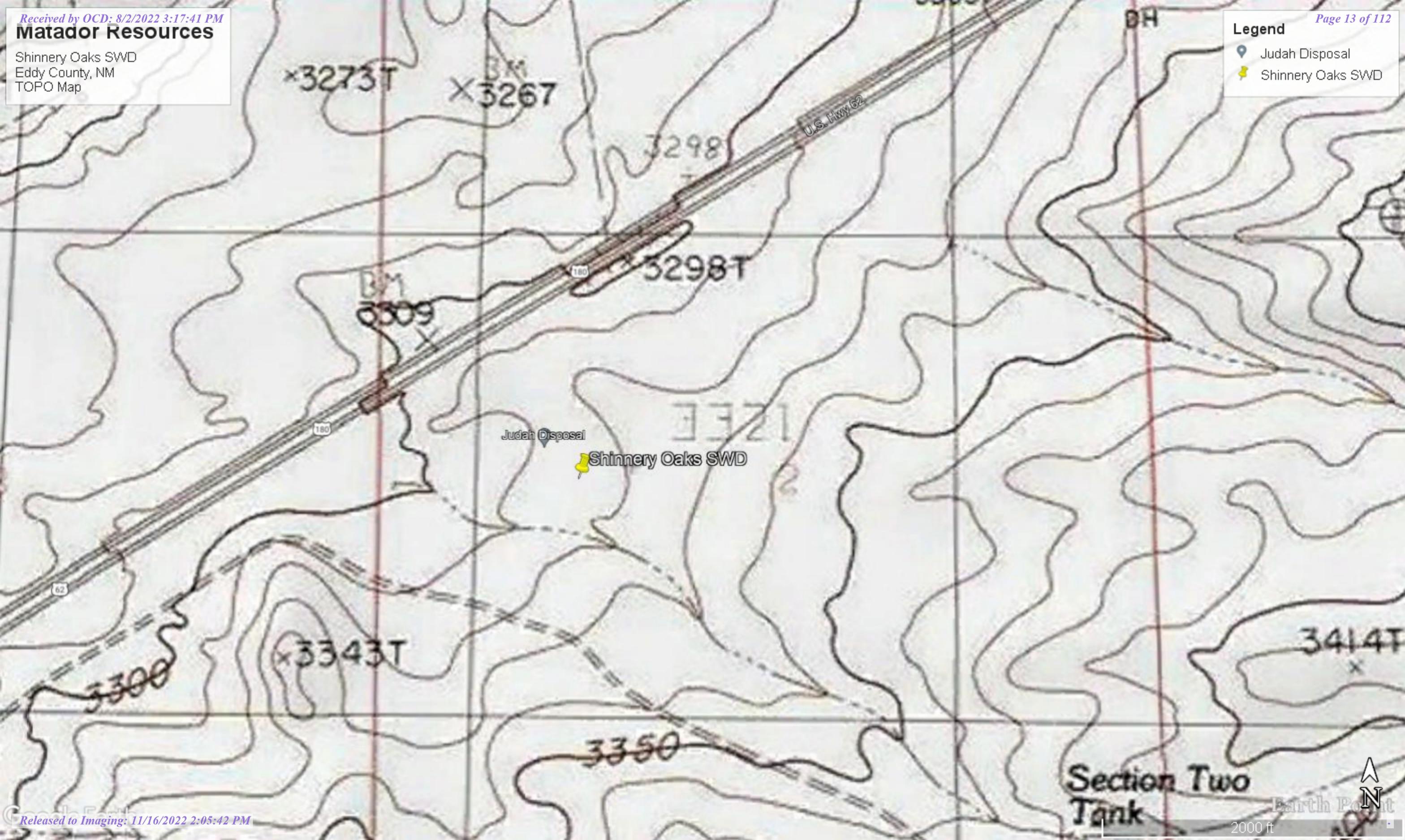
- High
- Judah Disposal
- Low
- Medium
- Shinnery Oaks SWD



Shinnery Oaks SWD  
Eddy County, NM  
TOPO Map

**Legend**

- Judah Disposal
- Shinnery Oaks SWD



North Arrow  
2000 ft



## Appendix II

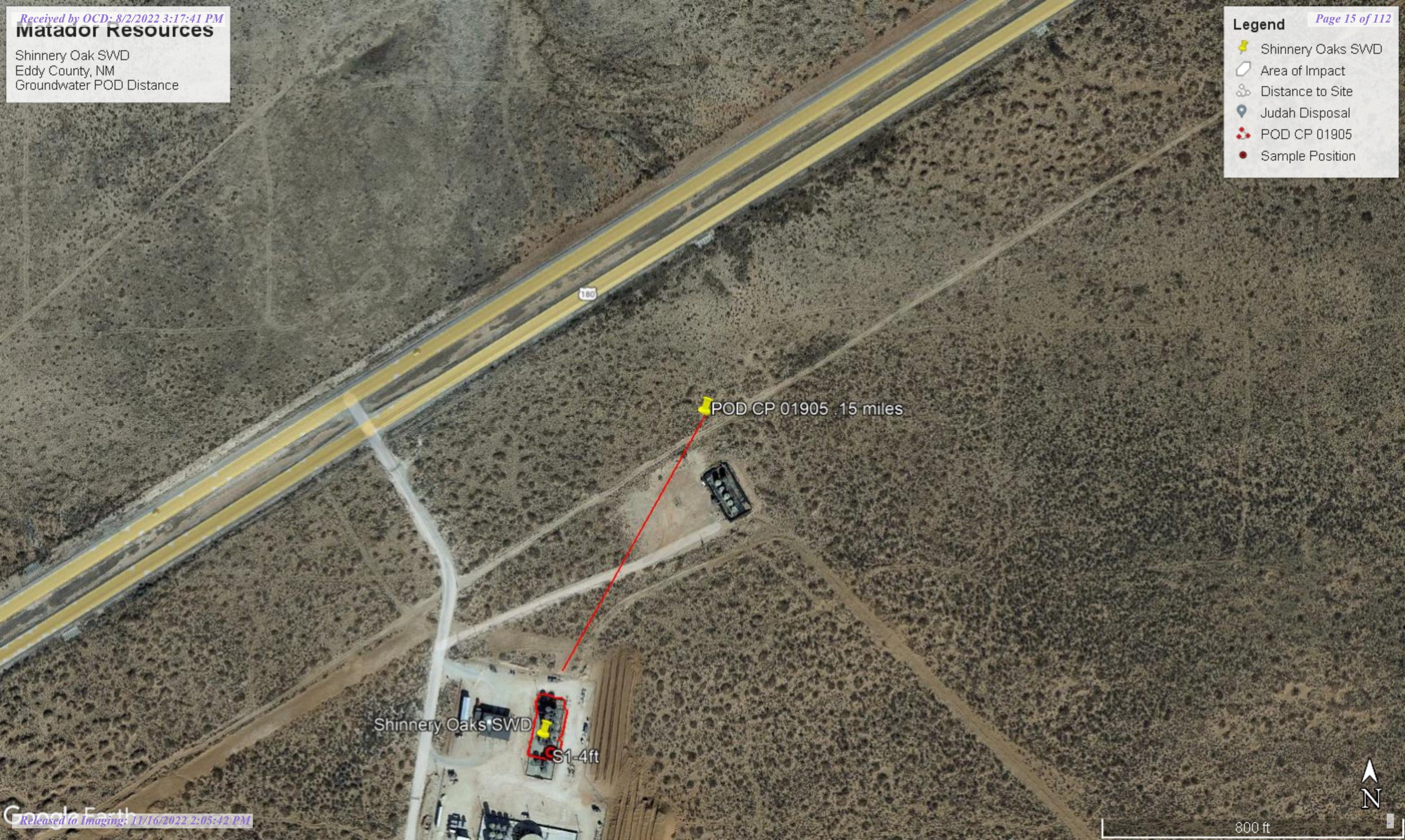
### Groundwater Data, & Soil Survey

**Matador Resources**

Shinnery Oak SWD  
Eddy County, NM  
Groundwater POD Distance

**Legend**

-  Shinnery Oaks SWD
-  Area of Impact
-  Distance to Site
-  Judah Disposal
-  POD CP 01905
-  Sample Position



Shinnery Oaks SWD  
S1-4ft

POD CP 01905 .15 miles

180

800 ft







# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
21003	CP 01905 POD1	1	4	1	02	21S	28E	588251	3598010

<b>Driller License:</b> 1753	<b>Driller Company:</b> VANGUARD WATER WELLS	
<b>Driller Name:</b> FRIESSEN, JACOBONTEE.NER		
<b>Drill Start Date:</b> 04/07/2022	<b>Drill Finish Date:</b> 04/08/2022	<b>Plug Date:</b>
<b>Log File Date:</b> 04/26/2022	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 5 GPM
<b>Casing Size:</b> 5.00	<b>Depth Well:</b> 210 feet	<b>Depth Water:</b> 160 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	163	194	Other/Unknown

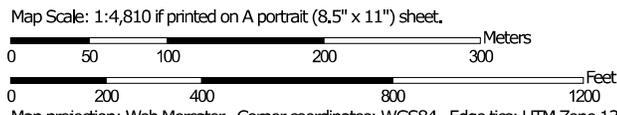
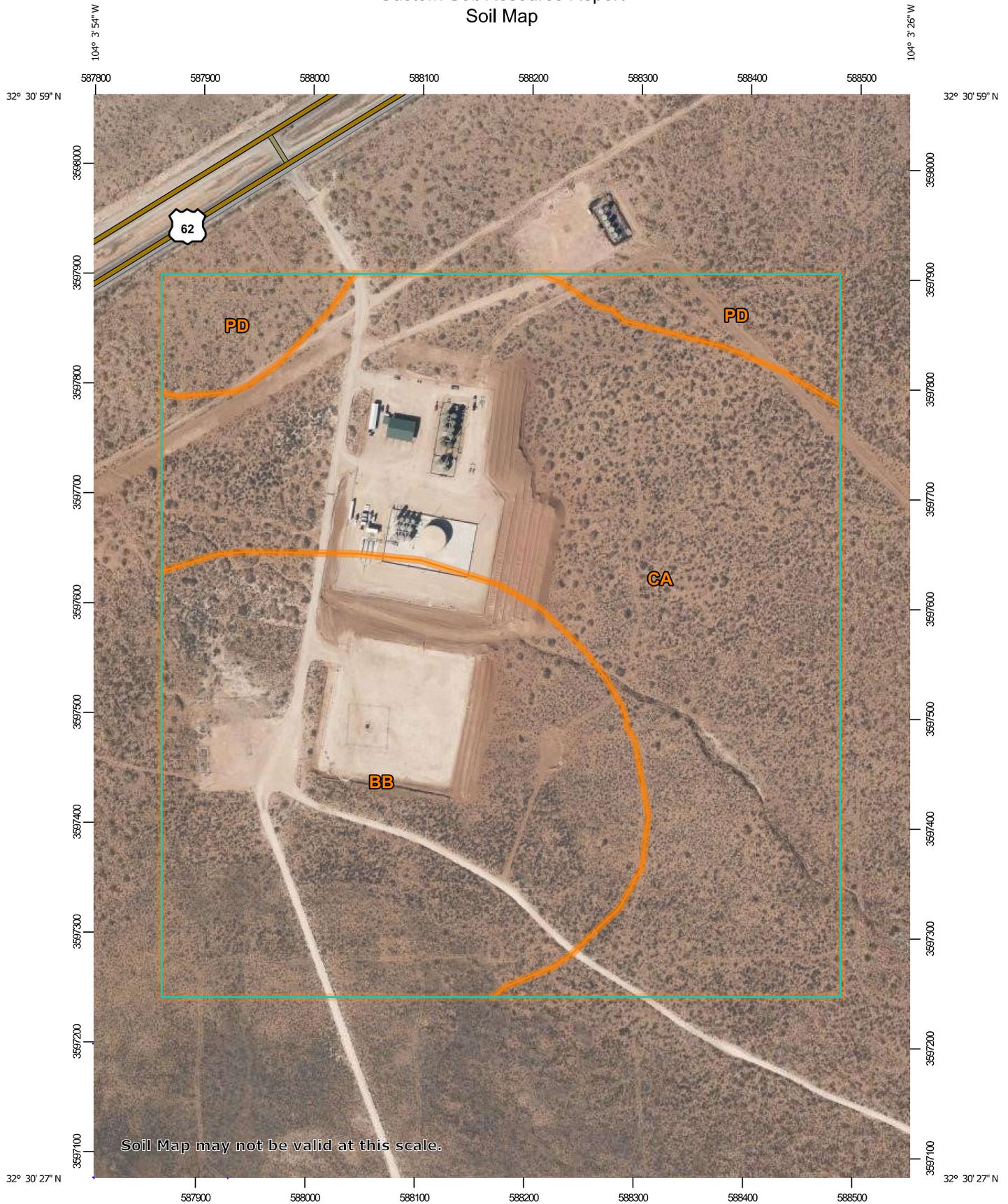
<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>	
	170	210	

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.

6/15/22 10:50 AM

POINT OF DIVERSION SUMMARY

### Custom Soil Resource Report Soil Map



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

## Custom Soil Resource Report

**Eddy Area, New Mexico****BB—Berino complex, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w43  
*Elevation:* 2,000 to 5,700 feet  
*Mean annual precipitation:* 5 to 15 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 260 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Berino and similar soils:* 60 percent  
*Pajarito and similar soils:* 25 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Berino****Setting**

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

**Typical profile**

*H1 - 0 to 17 inches:* fine sand  
*H2 - 17 to 58 inches:* sandy clay loam  
*H3 - 58 to 60 inches:* loamy sand

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
 (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Pajarito****Setting**

*Landform:* Dunes, plains, interdunes  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 9 inches:* loamy fine sand  
*H2 - 9 to 72 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*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 content:* 40 percent  
*Maximum salinity:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Minor Components****Cacique**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC004NM - Sandy  
*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Pajarito**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Kermit**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC005NM - Deep Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**CA—Cacique loamy sand, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w46  
*Elevation:* 3,000 to 5,500 feet  
*Mean annual precipitation:* 7 to 14 inches  
*Mean annual air temperature:* 57 to 68 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Cacique and similar soils:* 97 percent  
*Minor components:* 3 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Cacique****Setting**

*Landform:* Plains, basin floors  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium

**Typical profile**

*H1 - 0 to 5 inches:* loamy sand  
*H2 - 5 to 24 inches:* sandy clay loam  
*H3 - 24 to 60 inches:* indurated

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* 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  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 3.2 inches)

**Interpretive groups**

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

Custom Soil Resource Report

**Minor Components**

**Berino**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

**Berino**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

**Dune land**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

**PD—Pajarito-Dune land complex, 0 to 3 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 1w55  
*Elevation:* 3,000 to 5,000 feet  
*Mean annual precipitation:* 10 to 15 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 190 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pajarito and similar soils:* 46 percent  
*Dune land:* 45 percent  
*Minor components:* 9 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pajarito**

**Setting**

*Landform:* Plains, interdunes, dunes  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, convex  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 9 inches:* fine sandy loam  
*H2 - 9 to 36 inches:* fine sandy loam  
*H3 - 36 to 72 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Very low

### Custom Soil Resource Report

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 content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### Description of Dune Land

##### Setting

Landform: Dune fields

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

##### Typical profile

H1 - 0 to 6 inches: sandy loam

H2 - 6 to 60 inches: sandy loam

#### Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### Minor Components

##### Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

##### Largo

Percent of map unit: 4 percent

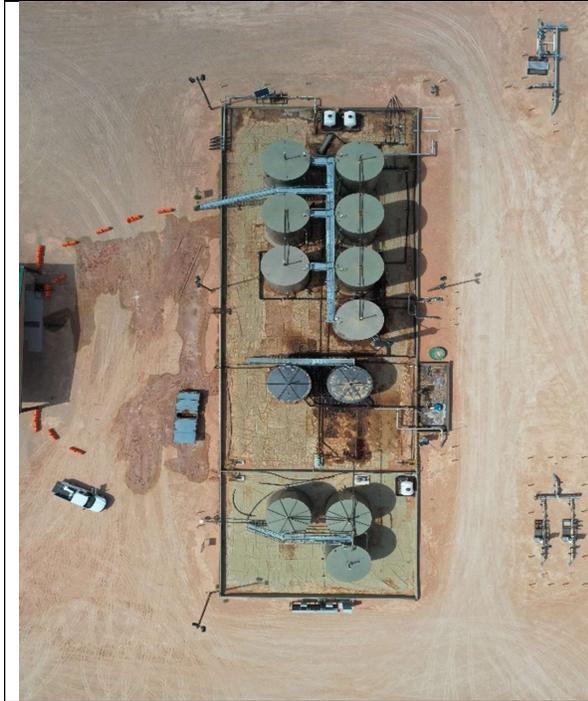
Ecological site: R042XC007NM - Loamy

Hydric soil rating: No



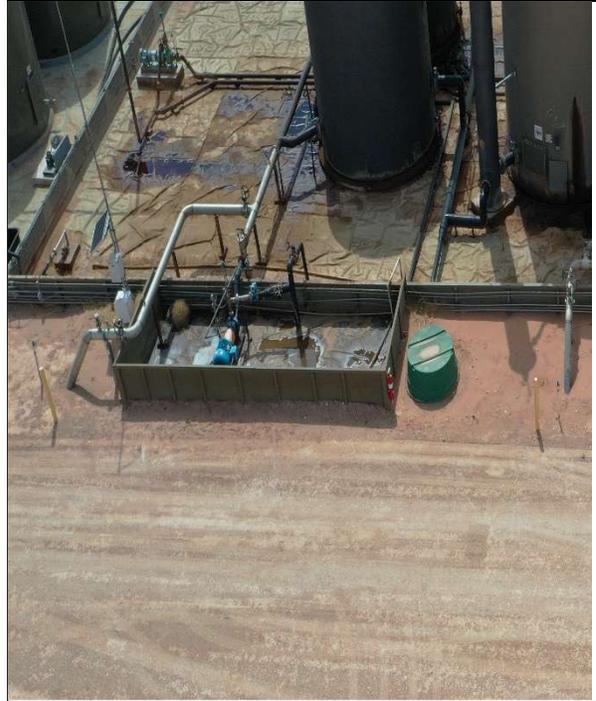
## Appendix III

### Photographic Documentation



**Photograph No.1 Description:**

Aerial of spill



**Photograph No.2 Description:**

Spill at source



**Photograph No.3 Description:**

Aerial of excavation



**Photograph No.4 Description:**

Excavation looking north



Matador  
Shinnery Oak  
07/12/2022 03:39 PM  
32.51361, -104.06194  
US-62, Carlsbad, NM 88220, USA

**Photograph No.5 Description:**

Backfill of pad area looking south



Matador  
Shinnery Oak  
07/12/2022 03:40 PM  
32.51367, -104.06202  
US-62, Carlsbad, NM 88220, USA

**Photograph No.6 Description:**

Backfill of pad area



**Photograph No.1 Description:**  
Liner on west side of release.



**Photograph No.2 Description:**  
Liner on south side of release.



**Photograph No.3 Description:**  
Liner on north side of release.



**Photograph No.4 Description:**  
Liner at source of release.



**Appendix IV**  
Laboratory Data



Environment Testing  
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## ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2422-1  
Laboratory Sample Delivery Group: 70252002702  
Client Project/Site: Shimmery Oaks SWD

For:  
Talon/LPE  
408 W. Texas St.  
Artesia, New Mexico 88210

Attn: Rebecca Pons

Authorized for release by:  
6/21/2022 12:26:24 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)



### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Laboratory Job ID: 890-2422-1  
SDG: 70252002702

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

### Case Narrative

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

---

**Job ID: 890-2422-1**

---

**Laboratory: Eurofins Carlsbad****Narrative**

---

**Job Narrative  
890-2422-1****Receipt**

The samples were received on 6/16/2022 11:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27746 and analytical batch 880-27735 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-27807 and analytical batch 880-28016 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



## Client Sample Results

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## Client Sample ID: S1

Lab Sample ID: 890-2422-1

Date Collected: 06/14/22 15:30

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 4'

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		06/17/22 09:32	06/17/22 23:35	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/17/22 09:32	06/17/22 23:35	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/17/22 09:32	06/17/22 23:35	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/17/22 23:35	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/17/22 09:32	06/17/22 23:35	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/17/22 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	06/17/22 09:32	06/17/22 23:35	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/17/22 09:32	06/17/22 23:35	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			06/20/22 14:35	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.2		49.9	15.0	mg/Kg			06/17/22 19:02	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U*1	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 17:50	1
Diesel Range Organics (Over C10-C28)	53.2		49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 17:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 17:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	82		70 - 130	06/17/22 08:10	06/17/22 17:50	1			
o-Terphenyl	88		70 - 130	06/17/22 08:10	06/17/22 17:50	1			

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7750		50.4	8.65	mg/Kg			06/21/22 07:53	10

## Client Sample ID: S2

Lab Sample ID: 890-2422-2

Date Collected: 06/14/22 15:35

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/22 09:32	06/17/22 23:55	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/22 09:32	06/17/22 23:55	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/17/22 09:32	06/17/22 23:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:32	06/17/22 23:55	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/22 09:32	06/17/22 23:55	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:32	06/17/22 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/17/22 09:32	06/17/22 23:55	1

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### Client Sample Results

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

**Client Sample ID: S2**

**Lab Sample ID: 890-2422-2**

Date Collected: 06/14/22 15:35

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	06/17/22 09:32	06/17/22 23:55	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 18:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 18:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/17/22 08:10	06/17/22 18:11	1
o-Terphenyl	98		70 - 130	06/17/22 08:10	06/17/22 18:11	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		4.97	0.853	mg/Kg			06/21/22 08:16	1

**Client Sample ID: S3**

**Lab Sample ID: 890-2422-3**

Date Collected: 06/14/22 15:40

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		06/17/22 09:32	06/18/22 00:16	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/17/22 09:32	06/18/22 00:16	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/17/22 09:32	06/18/22 00:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:32	06/18/22 00:16	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/17/22 09:32	06/18/22 00:16	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:32	06/18/22 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/17/22 09:32	06/18/22 00:16	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/17/22 09:32	06/18/22 00:16	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			06/17/22 19:02	1

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### Client Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: S3**

**Lab Sample ID: 890-2422-3**

Date Collected: 06/14/22 15:40

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:15	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/17/22 08:10	06/17/22 19:15	1
o-Terphenyl	94		70 - 130				06/17/22 08:10	06/17/22 19:15	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		4.98	0.855	mg/Kg			06/21/22 08:24	1

**Client Sample ID: S4**

**Lab Sample ID: 890-2422-4**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		06/17/22 09:32	06/18/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/17/22 09:32	06/18/22 00:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/17/22 09:32	06/18/22 00:36	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				06/17/22 08:10	06/17/22 19:37	1
o-Terphenyl	92		70 - 130				06/17/22 08:10	06/17/22 19:37	1

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### Client Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: S4**

**Lab Sample ID: 890-2422-4**

Date Collected: 06/14/22 15:45  
 Date Received: 06/16/22 11:24  
 Sample Depth: 0.6'

Matrix: Solid

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5710		50.0	8.58	mg/Kg			06/21/22 08:32	10

**Client Sample ID: S5**

**Lab Sample ID: 890-2422-5**

Date Collected: 06/14/22 15:50  
 Date Received: 06/16/22 11:24  
 Sample Depth: 0.6'

Matrix: Solid

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/18/22 00:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	114		70 - 130				06/17/22 09:32	06/18/22 00:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/17/22 09:32	06/18/22 00:57	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 19:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	84		70 - 130				06/17/22 08:10	06/17/22 19:58	1
o-Terphenyl	93		70 - 130				06/17/22 08:10	06/17/22 19:58	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.00	0.858	mg/Kg			06/21/22 08:40	1

### Client Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: BG1**

**Lab Sample ID: 890-2422-6**

Date Collected: 06/14/22 15:55

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
<b>Toluene</b>	<b>0.000731</b>	<b>J</b>	0.00200	0.000455	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.00115</b>	<b>J</b>	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
<b>o-Xylene</b>	<b>0.000446</b>	<b>J</b>	0.00200	0.000343	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
<b>Xylenes, Total</b>	<b>0.00160</b>	<b>J</b>	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	110		70 - 130				06/17/22 09:32	06/18/22 02:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/17/22 09:32	06/18/22 02:20	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total BTEX</b>	<b>0.00233</b>	<b>J</b>	0.00399	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U*1	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	86		70 - 130				06/17/22 08:10	06/17/22 20:20	1
o-Terphenyl	89		70 - 130				06/17/22 08:10	06/17/22 20:20	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>140</b>		4.96	0.851	mg/Kg			06/21/22 08:47	1

**Client Sample ID: BG2**

**Lab Sample ID: 890-2422-7**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/17/22 09:32	06/18/22 02:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	117		70 - 130				06/17/22 09:32	06/18/22 02:40	1

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### Client Sample Results

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

**Client Sample ID: BG2**

**Lab Sample ID: 890-2422-7**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	06/17/22 09:32	06/18/22 02:40	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:41	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/17/22 08:10	06/17/22 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/17/22 08:10	06/17/22 20:41	1
o-Terphenyl	93		70 - 130	06/17/22 08:10	06/17/22 20:41	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.24	F1	4.95	0.850	mg/Kg			06/21/22 08:55	1

**Client Sample ID: BG3**

**Lab Sample ID: 890-2422-8**

Date Collected: 06/14/22 16:05

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		06/17/22 09:32	06/18/22 03:01	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/17/22 09:32	06/18/22 03:01	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/17/22 09:32	06/18/22 03:01	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:32	06/18/22 03:01	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/17/22 09:32	06/18/22 03:01	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:32	06/18/22 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/17/22 09:32	06/18/22 03:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/17/22 09:32	06/18/22 03:01	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			06/17/22 19:02	1

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### Client Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: BG3**

**Lab Sample ID: 890-2422-8**

Date Collected: 06/14/22 16:05  
 Date Received: 06/16/22 11:24  
 Sample Depth: 0.6'

Matrix: Solid

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:02	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/17/22 08:10	06/17/22 21:02	1
o-Terphenyl	89		70 - 130				06/17/22 08:10	06/17/22 21:02	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9		5.00	0.858	mg/Kg			06/21/22 09:19	1

**Client Sample ID: BG4**

**Lab Sample ID: 890-2422-9**

Date Collected: 06/14/22 16:10  
 Date Received: 06/16/22 11:24  
 Sample Depth: 0.6'

Matrix: Solid

**Method: 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/17/22 09:32	06/18/22 03:21	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/17/22 09:32	06/18/22 03:21	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/20/22 14:35	1

**Method: 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.4	J	50.0	15.0	mg/Kg			06/17/22 19:02	1

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	J *1	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:23	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:23	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/17/22 08:10	06/17/22 21:23	1
o-Terphenyl	104		70 - 130				06/17/22 08:10	06/17/22 21:23	1

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### Client Sample Results

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

**Client Sample ID: BG4**

**Lab Sample ID: 890-2422-9**

Date Collected: 06/14/22 16:10

Matrix: Solid

Date Received: 06/16/22 11:24

Sample Depth: 0.6'

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.99	0.857	mg/Kg			06/21/22 09:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Surrogate Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2422-1	S1	118	92
890-2422-2	S2	113	96
890-2422-3	S3	112	90
890-2422-4	S4	116	95
890-2422-5	S5	114	93
890-2422-6	BG1	110	96
890-2422-7	BG2	117	93
890-2422-8	BG3	114	94
890-2422-9	BG4	114	85
LCS 880-27772/1-A	Lab Control Sample	106	99
LCSD 880-27772/2-A	Lab Control Sample Dup	111	101
MB 880-27712/5-A	Method Blank	97	90
MB 880-27772/5-A	Method Blank	103	87

**Surrogate Legend**  
BFB = 4-Bromofluorobenzene (Surr)  
DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2422-1	S1	82	88
890-2422-2	S2	87	98
890-2422-3	S3	84	94
890-2422-4	S4	83	92
890-2422-5	S5	84	93
890-2422-6	BG1	86	89
890-2422-7	BG2	85	93
890-2422-8	BG3	84	89
890-2422-9	BG4	92	104
LCS 880-27746/2-A	Lab Control Sample	95	86
LCSD 880-27746/3-A	Lab Control Sample Dup	98	9 S1-
MB 880-27746/1-A	Method Blank	96	109

**Surrogate Legend**  
1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

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### QC Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

#### Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27712/5-A  
 Matrix: Solid  
 Analysis Batch: 27743

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 27712

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/16/22 14:55	06/17/22 10:55	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/16/22 14:55	06/17/22 10:55	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/16/22 14:55	06/17/22 10:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/16/22 14:55	06/17/22 10:55	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/16/22 14:55	06/17/22 10:55	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/16/22 14:55	06/17/22 10:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		70 - 130	06/16/22 14:55	06/17/22 10:55	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/16/22 14:55	06/17/22 10:55	1

Lab Sample ID: MB 880-27772/5-A  
 Matrix: Solid  
 Analysis Batch: 27743

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 27772

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/17/22 09:32	06/17/22 21:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:32	06/17/22 21:31	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:32	06/17/22 21:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		70 - 130	06/17/22 09:32	06/17/22 21:31	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/17/22 09:32	06/17/22 21:31	1

Lab Sample ID: LCS 880-27772/1-A  
 Matrix: Solid  
 Analysis Batch: 27743

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 27772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09626		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09861		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1015		mg/Kg		102	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-27772/2-A  
 Matrix: Solid  
 Analysis Batch: 27743

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 27772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.09970		mg/Kg		100	70 - 130	2	35

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### QC Sample Results

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-27772/2-A  
Matrix: Solid  
Analysis Batch: 27743

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 27772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	101		70 - 130

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-27746/1-A  
Matrix: Solid  
Analysis Batch: 27735

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 27746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 11:39	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	109		70 - 130	06/17/22 08:10	06/17/22 11:39	1

Lab Sample ID: LCS 880-27746/2-A  
Matrix: Solid  
Analysis Batch: 27735

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 27746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	748.9		mg/Kg		75	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	945.7		mg/Kg		95	70 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-27746/3-A  
Matrix: Solid  
Analysis Batch: 27735

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 27746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	949.9	*1	mg/Kg		95	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130	3	20

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### QC Sample Results

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-27746/3-A  
 Matrix: Solid  
 Analysis Batch: 27735

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 27746

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	98		70 - 130
o-Terphenyl	9	S1-	70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27807/1-A  
 Matrix: Solid  
 Analysis Batch: 28016

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.858	U	5.00	0.858	mg/Kg			06/21/22 06:42	1

Lab Sample ID: LCS 880-27807/2-A  
 Matrix: Solid  
 Analysis Batch: 28016

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCSD 880-27807/3-A  
 Matrix: Solid  
 Analysis Batch: 28016

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Chloride	250	256.0		mg/Kg		102	90 - 110	11	20

Lab Sample ID: 890-2422-7 MS  
 Matrix: Solid  
 Analysis Batch: 28016

Client Sample ID: BG2  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 890-2422-7 MSD  
 Matrix: Solid  
 Analysis Batch: 28016

Client Sample ID: BG2  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Chloride	7.24	F1	248	216.6	F1	mg/Kg		85	90 - 110	1	20

## QC Association Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## GC VOA

## Prep Batch: 27712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27712/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 27743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	8021B	27772
890-2422-2	S2	Total/NA	Solid	8021B	27772
890-2422-3	S3	Total/NA	Solid	8021B	27772
890-2422-4	S4	Total/NA	Solid	8021B	27772
890-2422-5	S5	Total/NA	Solid	8021B	27772
890-2422-6	BG1	Total/NA	Solid	8021B	27772
890-2422-7	BG2	Total/NA	Solid	8021B	27772
890-2422-8	BG3	Total/NA	Solid	8021B	27772
890-2422-9	BG4	Total/NA	Solid	8021B	27772
MB 880-27712/5-A	Method Blank	Total/NA	Solid	8021B	27712
MB 880-27772/5-A	Method Blank	Total/NA	Solid	8021B	27772
LCS 880-27772/1-A	Lab Control Sample	Total/NA	Solid	8021B	27772
LCSD 880-27772/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27772

## Prep Batch: 27772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	5035	
890-2422-2	S2	Total/NA	Solid	5035	
890-2422-3	S3	Total/NA	Solid	5035	
890-2422-4	S4	Total/NA	Solid	5035	
890-2422-5	S5	Total/NA	Solid	5035	
890-2422-6	BG1	Total/NA	Solid	5035	
890-2422-7	BG2	Total/NA	Solid	5035	
890-2422-8	BG3	Total/NA	Solid	5035	
890-2422-9	BG4	Total/NA	Solid	5035	
MB 880-27772/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27772/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27772/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 27943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	Total BTEX	
890-2422-2	S2	Total/NA	Solid	Total BTEX	
890-2422-3	S3	Total/NA	Solid	Total BTEX	
890-2422-4	S4	Total/NA	Solid	Total BTEX	
890-2422-5	S5	Total/NA	Solid	Total BTEX	
890-2422-6	BG1	Total/NA	Solid	Total BTEX	
890-2422-7	BG2	Total/NA	Solid	Total BTEX	
890-2422-8	BG3	Total/NA	Solid	Total BTEX	
890-2422-9	BG4	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 27735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	8015B NM	27746
890-2422-2	S2	Total/NA	Solid	8015B NM	27746

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## GC Semi VOA (Continued)

## Analysis Batch: 27735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-3	S3	Total/NA	Solid	8015B NM	27746
890-2422-4	S4	Total/NA	Solid	8015B NM	27746
890-2422-5	S5	Total/NA	Solid	8015B NM	27746
890-2422-6	BG1	Total/NA	Solid	8015B NM	27746
890-2422-7	BG2	Total/NA	Solid	8015B NM	27746
890-2422-8	BG3	Total/NA	Solid	8015B NM	27746
890-2422-9	BG4	Total/NA	Solid	8015B NM	27746
MB 880-27746/1-A	Method Blank	Total/NA	Solid	8015B NM	27746
LCS 880-27746/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27746
LCSD 880-27746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27746

## Prep Batch: 27746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	8015NM Prep	
890-2422-2	S2	Total/NA	Solid	8015NM Prep	
890-2422-3	S3	Total/NA	Solid	8015NM Prep	
890-2422-4	S4	Total/NA	Solid	8015NM Prep	
890-2422-5	S5	Total/NA	Solid	8015NM Prep	
890-2422-6	BG1	Total/NA	Solid	8015NM Prep	
890-2422-7	BG2	Total/NA	Solid	8015NM Prep	
890-2422-8	BG3	Total/NA	Solid	8015NM Prep	
890-2422-9	BG4	Total/NA	Solid	8015NM Prep	
MB 880-27746/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27746/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 27851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Total/NA	Solid	8015 NM	
890-2422-2	S2	Total/NA	Solid	8015 NM	
890-2422-3	S3	Total/NA	Solid	8015 NM	
890-2422-4	S4	Total/NA	Solid	8015 NM	
890-2422-5	S5	Total/NA	Solid	8015 NM	
890-2422-6	BG1	Total/NA	Solid	8015 NM	
890-2422-7	BG2	Total/NA	Solid	8015 NM	
890-2422-8	BG3	Total/NA	Solid	8015 NM	
890-2422-9	BG4	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 27807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Soluble	Solid	DI Leach	
890-2422-2	S2	Soluble	Solid	DI Leach	
890-2422-3	S3	Soluble	Solid	DI Leach	
890-2422-4	S4	Soluble	Solid	DI Leach	
890-2422-5	S5	Soluble	Solid	DI Leach	
890-2422-6	BG1	Soluble	Solid	DI Leach	
890-2422-7	BG2	Soluble	Solid	DI Leach	
890-2422-8	BG3	Soluble	Solid	DI Leach	
890-2422-9	BG4	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

## HPLC/IC (Continued)

## Leach Batch: 27807 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27807/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2422-7 MS	BG2	Soluble	Solid	DI Leach	
890-2422-7 MSD	BG2	Soluble	Solid	DI Leach	

## Analysis Batch: 28016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2422-1	S1	Soluble	Solid	300.0	27807
890-2422-2	S2	Soluble	Solid	300.0	27807
890-2422-3	S3	Soluble	Solid	300.0	27807
890-2422-4	S4	Soluble	Solid	300.0	27807
890-2422-5	S5	Soluble	Solid	300.0	27807
890-2422-6	BG1	Soluble	Solid	300.0	27807
890-2422-7	BG2	Soluble	Solid	300.0	27807
890-2422-8	BG3	Soluble	Solid	300.0	27807
890-2422-9	BG4	Soluble	Solid	300.0	27807
MB 880-27807/1-A	Method Blank	Soluble	Solid	300.0	27807
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	300.0	27807
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27807
890-2422-7 MS	BG2	Soluble	Solid	300.0	27807
890-2422-7 MSD	BG2	Soluble	Solid	300.0	27807

### Lab Chronicle

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: S1**

**Lab Sample ID: 890-2422-1**

Date Collected: 06/14/22 15:30

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/17/22 23:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		10			28016	06/21/22 07:53	CH	XEN MID

**Client Sample ID: S2**

**Lab Sample ID: 890-2422-2**

Date Collected: 06/14/22 15:35

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/17/22 23:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 08:16	CH	XEN MID

**Client Sample ID: S3**

**Lab Sample ID: 890-2422-3**

Date Collected: 06/14/22 15:40

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 00:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 08:24	CH	XEN MID

**Client Sample ID: S4**

**Lab Sample ID: 890-2422-4**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 00:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID

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### Lab Chronicle

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: S4**

**Lab Sample ID: 890-2422-4**

Date Collected: 06/14/22 15:45

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		10			28016	06/21/22 08:32	CH	XEN MID

**Client Sample ID: S5**

**Lab Sample ID: 890-2422-5**

Date Collected: 06/14/22 15:50

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 00:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 19:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 08:40	CH	XEN MID

**Client Sample ID: BG1**

**Lab Sample ID: 890-2422-6**

Date Collected: 06/14/22 15:55

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 02:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 08:47	CH	XEN MID

**Client Sample ID: BG2**

**Lab Sample ID: 890-2422-7**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 02:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 20:41	AJ	XEN MID

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### Lab Chronicle

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

**Client Sample ID: BG2**

**Lab Sample ID: 890-2422-7**

Date Collected: 06/14/22 16:00

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 08:55	CH	XEN MID

**Client Sample ID: BG3**

**Lab Sample ID: 890-2422-8**

Date Collected: 06/14/22 16:05

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 03:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 21:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 09:19	CH	XEN MID

**Client Sample ID: BG4**

**Lab Sample ID: 890-2422-9**

Date Collected: 06/14/22 16:10

Matrix: Solid

Date Received: 06/16/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27772	06/17/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 03:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27943	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27851	06/17/22 19:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 08:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 21:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 09:27	CH	XEN MID

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

### Method Summary

Client: Talon/LPE  
 Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
 SDG: 70252002702

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

**Protocol References:**

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

- XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



### Sample Summary

Client: Talon/LPE  
Project/Site: Shimmery Oaks SWD

Job ID: 890-2422-1  
SDG: 70252002702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2422-1	S1	Solid	06/14/22 15:30	06/16/22 11:24	4'
890-2422-2	S2	Solid	06/14/22 15:35	06/16/22 11:24	0.6'
890-2422-3	S3	Solid	06/14/22 15:40	06/16/22 11:24	0.6'
890-2422-4	S4	Solid	06/14/22 15:45	06/16/22 11:24	0.6'
890-2422-5	S5	Solid	06/14/22 15:50	06/16/22 11:24	0.6'
890-2422-6	BG1	Solid	06/14/22 15:55	06/16/22 11:24	0.6'
890-2422-7	BG2	Solid	06/14/22 16:00	06/16/22 11:24	0.6'
890-2422-8	BG3	Solid	06/14/22 16:05	06/16/22 11:24	0.6'
890-2422-9	BG4	Solid	06/14/22 16:10	06/16/22 11:24	0.6'

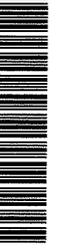
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1089 N Canal St.  
Carlsbad NM 88220  
Phone 575-988-3199 Fax: 575-988-3199

### Chain of Custody Record



eurofins  
Environment Testing  
America

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Kramer Jessica	Kramer Jessica	890-7422-1	890-7422-1
Shipping/Receiving	E-Mail:	Jessica.Kramer@et.eurofins.com	State of Origin	Page 1 of 1	Page 1 of 1
Company:	Accreditations Required (See note)	NE LAP - Texas	New Mexico	Job #:	890-2422-1
Address:	Due Date Requested	6/21/2022	Preservation Codes		
City:	TAT Requested (days)	1211 W Florida Ave	A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsH2O2 P Na2O4S Q Na2SO3 R -Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCA W pH 4-5 Y Trizma Z other (specify)		
Midland			Other-		
State Zip					
TX 79701					
Phone	PO #	432-704-5440(Tel)			
Email	WO #				
	Project #	89000040			
Project Name	SSOW#				
Shrimmy Oaks SWD					
Site					
<b>Sample Identification - Client ID (Lab ID)</b>					
S1 (890-2422-1)	Sample Date	6/14/22	Sample Time	15:30	Mountain
S2 (890-2422-2)	6/14/22	6/14/22	15:35	Mountain	Solid
S3 (890-2422-3)	6/14/22	6/14/22	15:40	Mountain	Solid
S4 (890-2422-4)	6/14/22	6/14/22	15:45	Mountain	Solid
S5 (890-2422-5)	6/14/22	6/14/22	15:50	Mountain	Solid
BG1 (890-2422-6)	6/14/22	6/14/22	15:55	Mountain	Solid
BG2 (890-2422-7)	6/14/22	6/14/22	16:00	Mountain	Solid
BG3 (890-2422-8)	6/14/22	6/14/22	16:05	Mountain	Solid
BG4 (890-2422-9)	6/14/22	6/14/22	16:10	Mountain	Solid
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze &amp; accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)			Primary Deliverable Rank 2		
Empty Kit Relinquished by			Date	Time	Method of Shipment:
Relinquished by			Date/Time	Company	Received by
Relinquished by			Date/Time	Company	Received by
Relinquished by			Date/Time	Company	Received by
Custody Seals Intact			Cooler Temperature(s) °C and Other Remarks.		
A Yes A No			Custody Seal No		
			Special Instructions/Note		
			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
			Return To Client		
			Disposal By Lab		
			Archive For		
			Months		

### Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2422-1

SDG Number: 70252002702

**Login Number: 2422**

**List Number: 1**

**Creator: Stutzman, Amanda**

**List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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### Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2422-1

SDG Number: 70252002702

**Login Number: 2422**

**List Number: 2**

**Creator: Teel, Brianna**

**List Source: Eurofins Midland**

**List Creation: 06/17/22 11:01 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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

---

July 18, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SHINNERY OAK SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 1A 1' (H223032-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	93.1	2.00	7.73	
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 99.0 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 2A 1' (H223032-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/14/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 43-149

Surrogate: 1-Chlorooctadecane 98.3 % 42.5-161

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 3A 1' (H223032-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/14/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1390</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 43-149

Surrogate: 1-Chlorooctadecane 98.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 4A 1' (H223032-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/14/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 43-149

Surrogate: 1-Chlorooctadecane 98.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 5A 1' (H223032-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/14/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 43-149

Surrogate: 1-Chlorooctadecane 90.1 % 42.5-161

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 6A 1' (H223032-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1460</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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**Analytical Results For:**

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

Received: 07/13/2022  
 Reported: 07/18/2022  
 Project Name: SHINNERY OAK SWD  
 Project Number: 702520.027.01  
 Project Location: EDDY

Sampling Date: 07/11/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7A 1' (H223032-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 93.0 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 8A 1' (H223032-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1250</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>16.3</b>	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 87.2 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 9A 1' (H223032-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52		
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62		
Total BTEX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/14/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22		
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39		
EXT DRO >C28-C36	13.5	10.0	07/14/2022	ND						

Surrogate: 1-Chlorooctane 75.3 % 43-149

Surrogate: 1-Chlorooctadecane 86.2 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 10A 1' (H223032-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>11.0</b>	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 43-149

Surrogate: 1-Chlorooctadecane 80.6 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 11A 0-6" (H223032-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>10.1</b>	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 43-149

Surrogate: 1-Chlorooctadecane 78.5 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 12A 0-6" (H223032-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1570</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>10.6</b>	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 43-149

Surrogate: 1-Chlorooctadecane 88.6 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 13A 0-6" (H223032-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 68.7 % 43-149

Surrogate: 1-Chlorooctadecane 80.1 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 14A 0-6" (H223032-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 63.2 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 15A 0-6" (H223032-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1740</b>	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
<b>DRO &gt;C10-C28*</b>	<b>23.6</b>	10.0	07/14/2022	ND	198	99.1	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>19.8</b>	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 43-149

Surrogate: 1-Chlorooctadecane 89.2 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 16A 0-6" (H223032-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52		
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62		
Total BTEX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	07/14/2022	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22		
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39		
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND						

Surrogate: 1-Chlorooctane 69.0 % 43-149

Surrogate: 1-Chlorooctadecane 78.0 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 17A 0-6" (H223032-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 65.9 % 43-149

Surrogate: 1-Chlorooctadecane 76.1 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 18A 0-6" (H223032-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 112 % 43-149

Surrogate: 1-Chlorooctadecane 141 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 19A 0-6" (H223032-19)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52		
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62		
Total BTEX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	07/14/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22		
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39		
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND						

Surrogate: 1-Chlorooctane 69.0 % 43-149

Surrogate: 1-Chlorooctadecane 79.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 20A 0-6" (H223032-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 65.8 % 43-149

Surrogate: 1-Chlorooctadecane 75.9 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 21A 0-6" (H223032-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.01	100	2.00	1.52	
Toluene*	<0.050	0.050	07/15/2022	ND	2.20	110	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.68	111	6.00	1.62	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 81.8 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: S - 22A 0-6" (H223032-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 43-149

Surrogate: 1-Chlorooctadecane 90.1 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: SW 1 1' (H223032-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 43-149

Surrogate: 1-Chlorooctadecane 79.8 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: SW 2 1' (H223032-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 43-149

Surrogate: 1-Chlorooctadecane 78.2 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: SW 3 0-6" (H223032-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 43-149

Surrogate: 1-Chlorooctadecane 81.6 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: SW 4 0-6" (H223032-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 69.0 % 43-149

Surrogate: 1-Chlorooctadecane 74.4 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 1 5' (H223032-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	201	101	200	5.22	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 90.6 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 1 6' (H223032-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 43-149

Surrogate: 1-Chlorooctadecane 90.5 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 1 7' (H223032-29)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 43-149

Surrogate: 1-Chlorooctadecane 96.4 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 1 8' (H223032-30)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 118 % 42.5-161

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 2 1' (H223032-31)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 2 2' (H223032-32)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 43-149

Surrogate: 1-Chlorooctadecane 119 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 2 3' (H223032-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 2 4' (H223032-34)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 43-149

Surrogate: 1-Chlorooctadecane 122 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 3 1' (H223032-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/14/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.2 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 3 2' (H223032-36)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/14/2022	ND	432	108	400	7.69	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 43-149

Surrogate: 1-Chlorooctadecane 91.7 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 3 3' (H223032-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/14/2022	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 43-149

Surrogate: 1-Chlorooctadecane 97.3 % 42.5-161

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**Analytical Results For:**

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

Received:	07/13/2022	Sampling Date:	07/11/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	SHINNERY OAK SWD	Sampling Condition:	Cool & Intact
Project Number:	702520.027.01	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY		

**Sample ID: BH 3 4' (H223032-38)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.96	98.1	2.00	0.0412	
Toluene*	<0.050	0.050	07/15/2022	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.07	104	2.00	0.0974	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.51	108	6.00	0.318	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2022	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	203	101	200	3.05	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	194	97.2	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 43-149

Surrogate: 1-Chlorooctadecane 94.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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 LPE		<b>BILL TO</b>		ANALYSIS REQUEST			
Project Manager:		P.O. #:					
Address: 408 W. Texas Ave		Company:					
City: Artesia		Attn:					
State: NM zip: 88210		Address:					
Phone #: 575.746.8768		City:					
Fax #: _____		State:					
Project #: 102530-021.01		Zip:					
Project Owner: S. L. W. OAKS LTD		Phone #:					
Project Location: EDDY		Fax #:					
Sampler Name: A. Baker		PRESERV/		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	REMARKS
HA23032	S1A TP	C		GROUNDWATER	7/11	9:00	CL
1	S2A	C		WASTEWATER		9:05	BTef
2	S3A	C		SOIL		9:10	TPH
3	S4A	C		OIL		9:15	
4	S5A	C		SLUDGE		9:20	
5	S6A	C		OTHER :		9:25	
6	S7A	C		ACID/BASE:		9:30	
7	S8A	C		ICE / COOL		9:35	
8	S9A	C		OTHER :		9:40	
9	S10A	C				9:45	

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 7/13/22 Received By: *[Signature]*  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) 4.16/C-0.5c Sample Condition:  Cool  Intact  
 Sampler - UPS - Bus - Other: 3.5c #113  Yes  No

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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon LPE		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address: 408 W. Texas Ave		Company:			
City: Artesia		Attn:			
State: NM zip: 88210		Address:			
Phone #: 575.746.8768		City:			
Fax #: 575.746.8768		State:			
Project #: PASO.027.01		Project Owner:			
Project Name: Skyway One SWD.		Phone #:			
Project Location: EDDY		Zip:			
Sampler Name: K. Pavei		Fax #:			
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
				SOIL	OIL
				SLUDGE	OTHER :
				ACID/BASE:	ICE / COOL
				OTHER :	
		DATE	TIME		
HA03032	S11A D-C"	7/11	9:50	CC	
11	S.12A D-C"		9:55	BTet	
12	S.13A D-C"		10:05	TDH	
13	S.14A D-C"		10:10		
14	S.15A D-C"		10:15		
15	S.16A D-C"		10:20		
16	S.17A D-C"		10:25		
17	S.18A D-C"		10:30		
18	S.19A D-C"		10:35		
19	S.20A D-C"				
20					

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*  
 Date: 7.13.22  
 Time: 09:05  
 Received By: *[Signature]*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) 4.12/10-0.10  
 Sampler - UPS - Bus - Other: 3.52 #113  
 Sample Condition: Cool Intact  
 Yes  No   
 Checked By: *[Signature]*

Phone Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  
 Add'l Fax #: \_\_\_\_\_  
 REMARKS:

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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon LPE		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address: 408 W. Texas Ave		Company:			
City: Artesia		Attn:			
Phone #: 575.746.8768		Address:			
Fax #: 575.746.8768		City:			
Project #: 702520.071.01		State:		Zip:	
Project Name: Skunney Oil		Phone #:			
Project Location: EDDY		Fax #:			
Sampler Name: A. Parker		PRESERV:		SAMPLING	
FOR LAB USE ONLY		MATRIX			
Lab I.D.		Sample I.D.			
		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE		TIME	
1023032		7/11		10:40	
a1		5-21A O-6'		10:45	
a2		5-22B 6-6'		11:20	
a3		5-21 11'		11:25	
a4		5-22 11'		11:10	
a5		5-23 0-6"		11:15	
a6		5-24 0-6"		1:00	
a7		B4-1 5'		1:15	
a8		B4-1 6'		1:20	
a9		B4-1 7'		1:25	
a10		B4-1 8'		1:35	

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 7/13/22 Received By: *[Signature]* Date: 7/15/22

Delivered By: (Circle One) 4.1e / C.O.6' Sample Condition: Cool Intact  Yes  No CHECKED BY: *[Signature]*

Sampler - UPS - Bus - Other: 3.5e #113  Yes  No

REMARKS:

CL  
BLEP  
TDH

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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon LPE		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>								
Project Manager:		P.O. #:										
Address: 408 W. Texas Ave		Company:										
City: Artesia		Attn:										
State: NM zip: 88210		Address:										
Phone #: 575.746.8768		City:										
Fax #: _____		State:										
Project #: 70250.021.01		Project Owner:										
Project Name: SHILOH, DAK SWD		Phone #:										
Project Location: EDDY		Zip:										
Sampler Name: A. DAVEE		Fax #:										
<small>FOR LAB USE ONLY</small>												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HA03033	BH.2.1'	G								7/11	2:00	CL
32	BH.2.3'	G									2:15	BTEX
33	BH.2.4'	G									2:30	TPH
34	BH.3.1'	G									2:45	
35	BH.3.2'	G									3:00	
36	BH.3.3'	G									3:15	
37	BH.3.4'	G									3:30	
38	BH.3.4'	G									3:45	

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 7-13-22 Received By: *[Signature]* Date: 7-13-22  
 Time: 1:15 PM

Delivered By: (Circle One) UPS - Bus - Other: 4/10/20-0.62  
 Sample Condition: Cool Intact Yes  No   
 Checked By: *[Signature]*

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



## Appendix V

NMOCD

C-141

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

Incident ID	nAPP2216632989
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Matador Production Company	OGRID: 228937
Contact Name: Arsenio T. Jones	Contact Telephone: 575-361-4333
Contact email: arsenio.jones@matadorresources.com	Incident # (assigned by OCD): nAPP2216632989
Contact mailing address: One Lincoln Centre Dallas, TX 75240	

### Location of Release Source

Latitude 32.513523 Longitude -104.061813 (location of source)  
 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Shinnery Oaks SWD	Site Type: Salt Water Disposal
Date Release Discovered: 03/07/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	02	21S	28E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 45	Volume Recovered (bbls) 42
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

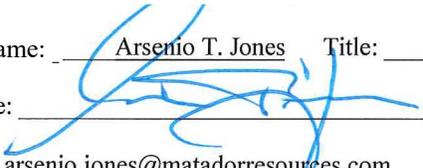
Cause of Release: Equipment Failure-fluid remained in containment on facility.

Incident ID	nAPP2216632989
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was provided to the NMOCD on 6/15/22 by Arsenio Jones of Matador (online).	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:  
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>    Arsenio T. Jones    </u> Title: <u>    Regulatory, Environmental and Safety Specialist    </u> Signature: <u></u> Date: <u>    6/15/2022    </u> email: <u>    arsenio.jones@matadorresources.com    </u> Telephone: <u>    575-361-4333    </u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

Incident ID	nAPP2216632989
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>160</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

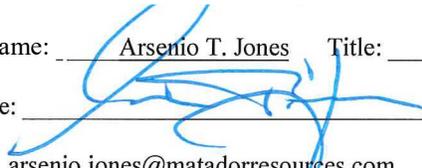
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the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

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

Incident ID	nAPP2216632989
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: Arsenio T. Jones Title: Regulatory, Environmental and Safety Specialist

Signature:  Date: 6/15/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

**OCD Only**

Received by: Jocelyn Harimon Date: 08/02/2022

Incident ID	nAPP2216632989
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: Arsenio T. Jones Title: Regulatory, Environmental and Safety Specialist

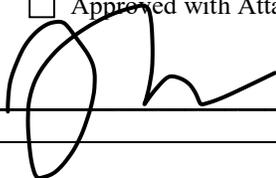
Signature:  Date: 7/28/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

**OCD Only**

Received by: Jocelyn Harimon Date: 08/02/2022

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

Signature:  Date: 11/16/2022

Incident ID	nAPP2216632089
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: Arsenio T. Jones Title: Regulatory, Environmental and Safety Specialist

Signature:  Date: 7/28/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

**OCD Only**

Received by: Jocelyn Harimon Date: 08/02/2022

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: 11/16/2022

Printed Name: Jocelyn Harimon Title: Environmental Specialist

**From:** [Rebecca Pons](#)  
**To:** [info, nmwrrs, OSE](#)  
**Cc:** [Arsenio Jones](#)  
**Subject:** nAPP2216632989 Shinnery Oaks SWD  
**Date:** Thursday, July 7, 2022 1:53:00 PM  
**Attachments:** [image001.png](#)

---

Good Afternoon,

The intent of this email is to serve as notice that we will be confirmation sampling the remediation of this site on Monday, July 11, 2022, at approximately 9:00 AM.

Should you have any questions please feel free to call me.

*Rebecca Pons*

**Rebecca Pons**  
**Senior Environmental Project Manager**

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.441.0980

Fax: 575.746.8905

Emergency: 866.742.0742

Web: [www.talonlpe.com](http://www.talonlpe.com)



## Rebecca Pons

---

**From:** Rebecca Pons  
**Sent:** Thursday, July 21, 2022 8:46 AM  
**To:** 'info, nmwrrs, OSE'  
**Cc:** 'Arsenio Jones'; James Carnes  
**Subject:** nAPP2216632989 Shinnery Oaks SWD

Good Morning,

We are scheduling a liner inspection for the incident associated with this site on Monday, July 25, 2022 at 8:00 AM.  
If you have any questions or concerns, please feel free to call me.

*Rebecca Pons*

### Rebecca Pons

Senior Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.441.0980

Fax: 575.746.8905

Emergency: 866.742.0742

Web: [www.talonlpe.com](http://www.talonlpe.com)



# Liner Integrity Certification

The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

Facility ID:

Date: 7/25/2022

Incident ID(s): nAPP2216632989

- Responsible Party has visually inspected the liner.
- Liner remains intact and was able to contain the leak in question.
- At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- Photographs illustrating liner integrity are included.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 130819

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 130819
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	None	11/16/2022