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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
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<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:

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	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
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 2,500 mg/kg			2,500 mg/kg	20,000 mg/kg
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.

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.

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

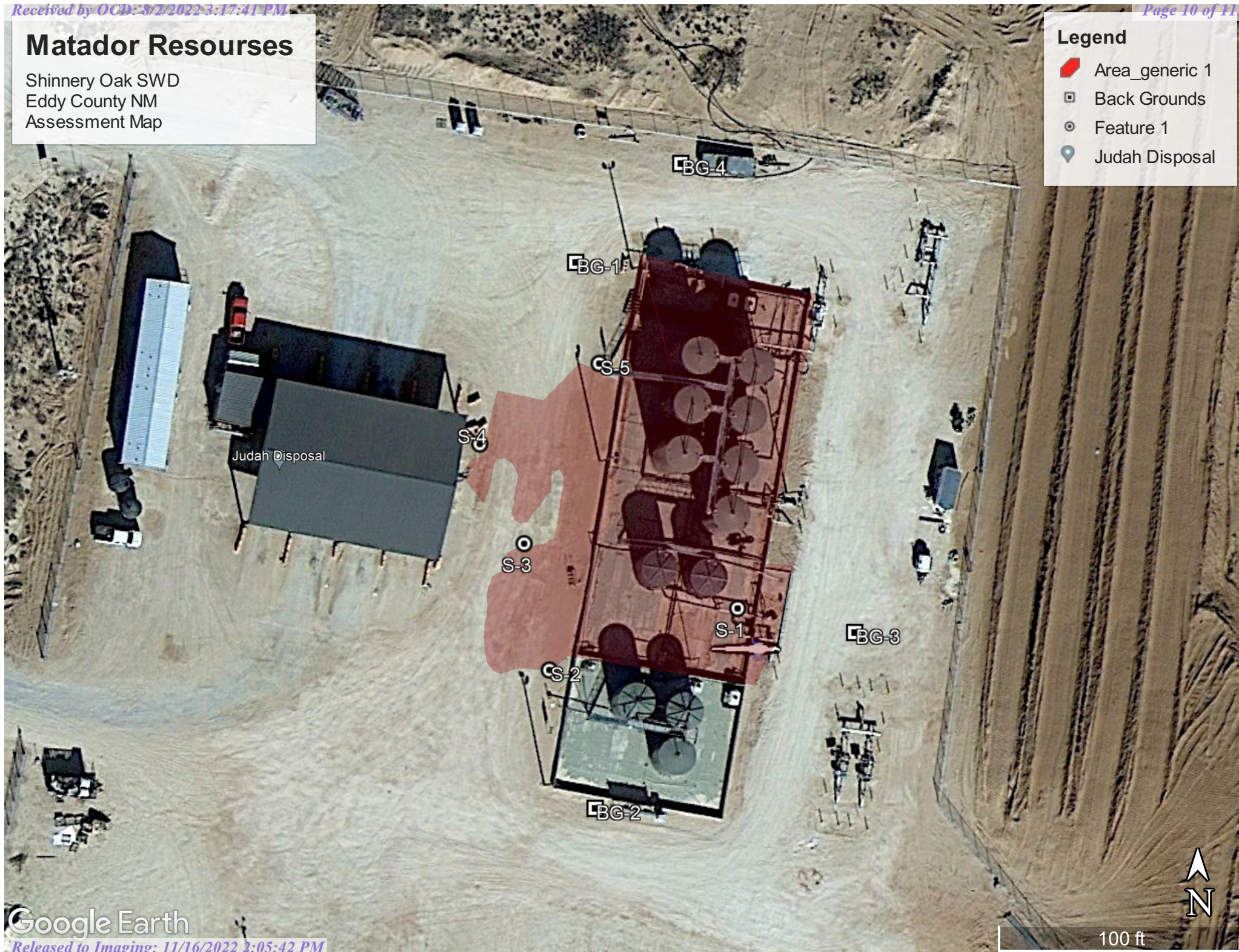
- Judah Disposal
- Shinnery Oaks SWD



Matador Resources

Shinnery Oak SWD
Eddy County NM
Assessment Map

- Legend**
- Area_generic 1
 - Back Grounds
 - Feature 1
 - Judah Disposal



Shinnery Oaks SWD
Eddy County, NM
Confirmation Map

Legend Page 11 of 112

Excavated Area

Borehole Position

Judah Disposal

Sample Position



Matador Resources

Shinnery Oaks SWD
Eddy County, NM
Karst Map

Legend

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

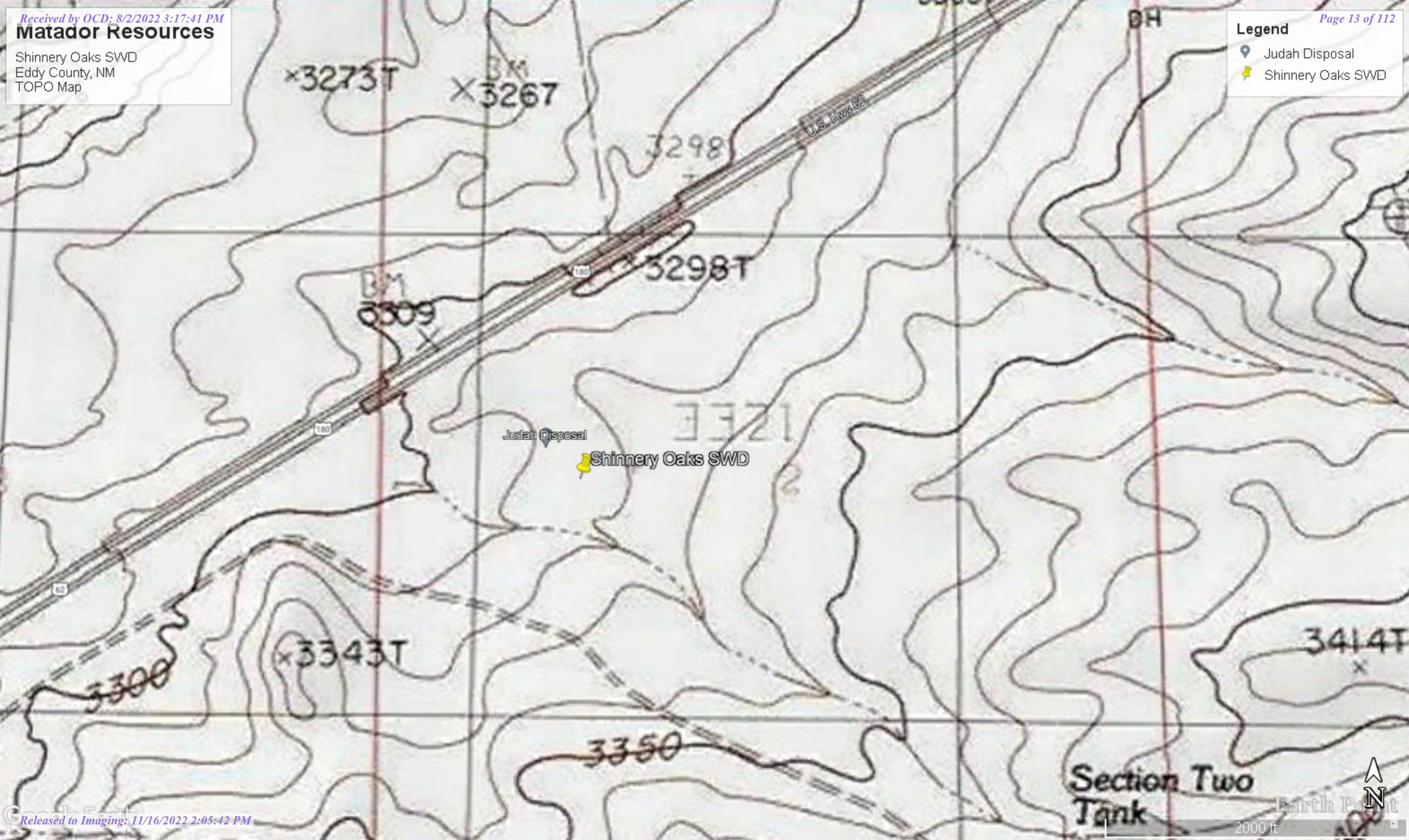


Matador Resources

Shinnery Oaks SWD
Eddy County, NM
TOPO Map

Legend

-  Judah Disposal
-  Shinnery Oaks SWD





Appendix II

Groundwater Data, & Soil Survey

Legend

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 Shinnery Oaks SWD

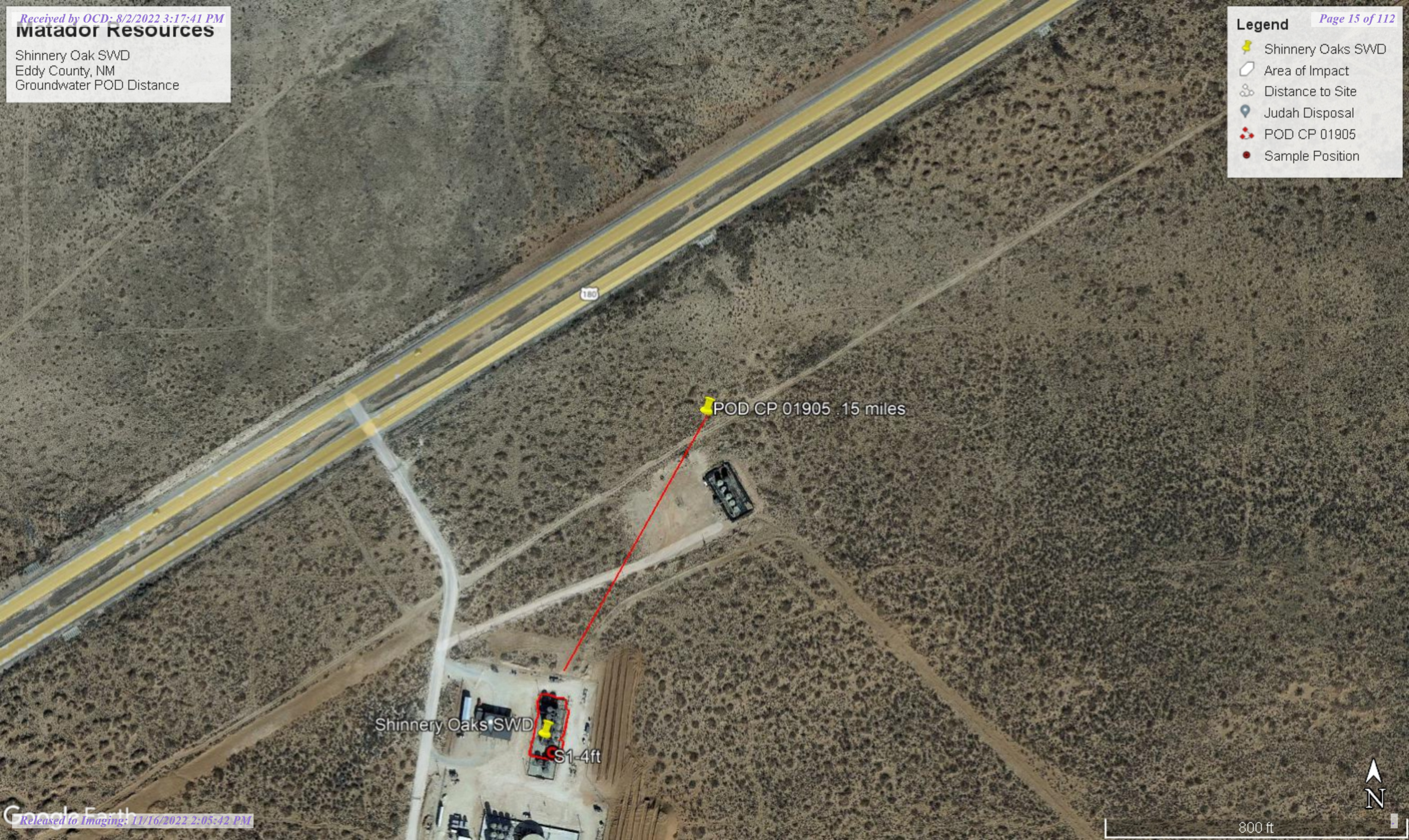
 Area of Impact

 Distance to Site

 Judah Disposal

 POD CP 01905

 Sample Position





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01905 POD1		CP	ED	1	4	1	02	21S	28E	588251	3598010	294	210	160	50
C_03266 POD1		CUB	ED	3	4	4	04	21S	28E	585844	3596555*	2569	260	80	180
CP 01202 POD1		CP	ED	4	4	3	26	20S	29E	589569	3600512	3122	173	158	15
C_03267 POD1		CUB	ED	4	3	3	04	21S	28E	584833	3596541*	3501	52	40	12
CP 00759		CP	ED		4	2	28	20S	29E	586984	3601360*	3788	205	90	115
CP 00516		CP	ED	4	4	4	12	21S	28E	590901	3594984*	3918	275	205	70
CP 01861 POD1		CP	ED	4	1	4	08	21S	28E	584023	3595285	4779	160	70	90

Average Depth to Water: **114 feet**

Minimum Depth: **40 feet**

Maximum Depth: **205 feet**

Record Count: 7

UTM NAD83 Radius Search (in meters):

Easting (X): 588121

Northing (Y): 3597746

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


6/15/22 10:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y		
21003	CP 01905 POD1	1	4	1	02	21S	28E	588251	3598010		
<hr/>											
Driller License:		1753		Driller Company:			VANGUARD WATER WELLS				
Driller Name:		FRIESSEN, JACOBONTEE.NER									
Drill Start Date:		04/07/2022			Drill Finish Date:			04/08/2022		Plug Date:	
Log File Date:		04/26/2022			PCW Rev Date:					Source: Shallow	
Pump Type:					Pipe Discharge Size:					Estimated Yield: 5 GPM	
Casing Size:		5.00			Depth Well:			210 feet		Depth Water: 160 feet	
<hr/>											
Water Bearing Stratifications:					Top	Bottom	Description				
					163	194	Other/Unknown				
<hr/>											
Casing Perforations:					Top	Bottom					
					170	210					
<hr/>											

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.

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POINT OF DIVERSION SUMMARY

Custom Soil Resource Report Soil Map



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

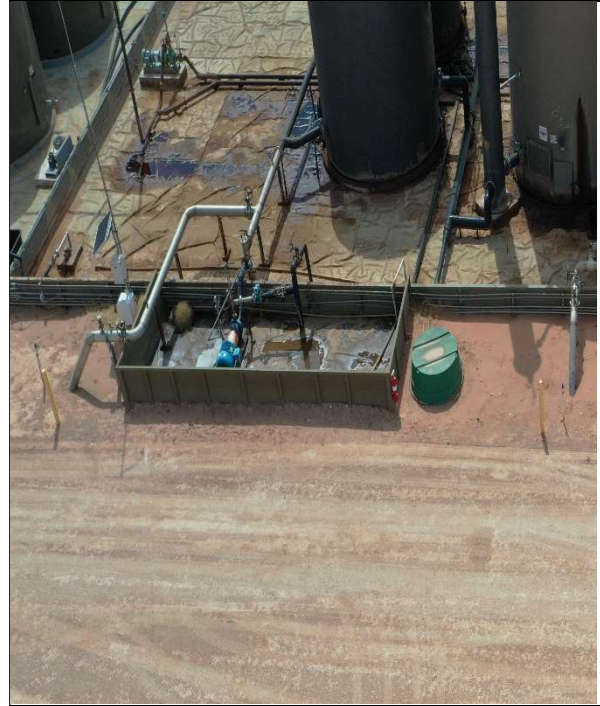


Appendix III

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



Photograph No.5 Description:

Backfill of pad area looking south



Photograph No.6 Description:

Backfill of pad area



Liner Inspection
Matador Resources, Shinnery Oaks SWD #003



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 America

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

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/21/2022 12:26:24 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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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

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	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

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 00:57	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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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

Eurofins Carlsbad

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
Toluene	0.000731	J	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
m-Xylene & p-Xylene	0.00115	J	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
o-Xylene	0.000446	J	0.00200	0.000343	mg/Kg		06/17/22 09:32	06/18/22 02:20	1
Xylenes, Total	0.00160	J	0.00399	0.00101	mg/Kg		06/17/22 09:32	06/18/22 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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
Total BTEX	0.00233	J	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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
Chloride	140		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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

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	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

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

Lab Sample ID: 890-2422-9
Matrix: Solid

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	MB 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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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
Benzene	0.100	0.09813		mg/Kg		98	70 - 130
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 %Recovery	LCS Qualifier	Limits
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	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 Limits	RPD	RPD Limit
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
4-Bromofluorobenzene (Surr)	111		70 - 130
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
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/17/22 08:10	06/17/22 11:39	1
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
Oil 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
1-Chlorooctane	96		70 - 130	06/17/22 08:10	06/17/22 11:39	1
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
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
1-Chlorooctane	95		70 - 130
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 Limits	RPD	RPD Limit
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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
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

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
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

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	229.8		mg/Kg		92	90 - 110	

Lab Sample ID: LCSD 880-27807/3-A

Matrix: Solid

Analysis Batch: 28016

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	7.24	F1	248	219.5	F1	mg/Kg		86	90 - 110	

Lab Sample ID: 890-2422-7 MSD

Matrix: Solid

Analysis Batch: 28016

Client Sample ID: BG2

Prep Type: Soluble

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

Eurofins Carlsbad

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

Eurofins Carlsbad

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	

Eurofins Carlsbad

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

Eurofins Carlsbad

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

Eurofins Carlsbad

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

Eurofins Carlsbad

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

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'



Environment Testing
Xenco

Chain of Custody


Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1295
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	TPB	Bill to: (if different)	
Company Name:	Talco CPE	Company Name:	
Address:	408 Winters Ave	Address:	
City, State ZIP:	Austin 78720	City, State ZIP:	
Phone:	512 746 8768	Email:	

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: _____ Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	
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Project Name:	Shively Oaks	Turn Around		ANALYSIS REQUEST  890-2422 Chain of Custody	Preservative Codes None, NO DI Water, H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Number:	102550, 027.02	<input type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location:	EDD	Due Date:	3 days		
Sampler's Name:	TPB	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					
SAMPLE RECEIPT		Temp Blank:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Wet Ice:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Samples Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Thermometer ID:			
Cooler Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Correction Factor:			
Sample Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Temperature Reading:	2.8		
Total Containers:		Corrected Temperature:	2.6		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
3.1		4/14	3:30	4'	G 1
3.2			3:35	6.4'	G 1
3.3			3:40	6.4'	G 1
3.4			3:45	6.4'	G 1
3.5			3:50	6.4'	G 1
3.6			3:55	6.4'	G 1
3.7			4:00	6.4'	G 1
3.8			4:05	6.4'	G 1
3.9			4:10	6.4'	G 1

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
TPB	TPB	4/14/22 11:24			

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No				
Client Contact:	Phone:	Kramer Jessica			890-796-1				
Shipping/Receiving	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin	Page 1 of 1					
Company:	Accreditations Required (See note)	NE LAP - Texas	New Mexico	Job #	890-2422-1				
Eurofins Environment Testing South Centre		Due Date Requested		Preservation Codes					
Address: 1211 W Florida Ave		6/21/2022		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amelcor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other- M Hexane N None O AsHClO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCA W pH 4.5 Y Trizma Z other (specify)					
City: Midland	TAT Requested (days)	Analysis Requested							
State Zip: TX 79701	PO #	8021B/6036FP_Calc (MOD) BTEX							
Phone: 432-704-5440(Tel)	WO #	Total_BTEX_GCV							
Email:	Project #	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH							
Project Name: Shimmy Oaks SWD	SSOW#	8016MOD_Calc							
		300_ORGFM_28D/DI_LEACH Chloride							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=organic, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
S1 (890-2422-1)	6/14/22	15 30	Mountain	Solid	Solid	X	X	X	
S2 (890-2422-2)	6/14/22	15 35	Mountain	Solid	Solid	X	X	X	
S3 (890-2422-3)	6/14/22	15 40	Mountain	Solid	Solid	X	X	X	
S4 (890-2422-4)	6/14/22	15 45	Mountain	Solid	Solid	X	X	X	
S5 (890-2422-5)	6/14/22	15 50	Mountain	Solid	Solid	X	X	X	
BG1 (890-2422-6)	6/14/22	15 55	Mountain	Solid	Solid	X	X	X	
BG2 (890-2422-7)	6/14/22	16 00	Mountain	Solid	Solid	X	X	X	
BG3 (890-2422-8)	6/14/22	16 05	Mountain	Solid	Solid	X	X	X	
BG4 (890-2422-9)	6/14/22	16 10	Mountain	Solid	Solid	X	X	X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Centre, LLC places the ownership of method, analyte & 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 Centre, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Centre, 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 Centre, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: *Chae* Date: *6/21/22* Time: *10:00* Method of Shipment: *Refrigerated*

Relinquished by: *Chae* Date: *6/21/22* Company: *Eurofins* Received by: *Chae* Date: *6/21/22* Company: *Eurofins*

Relinquished by: *Chae* Date: *6/21/22* Company: *Eurofins* Received by: *Chae* Date: *6/21/22* Company: *Eurofins*

Custody Seals Intact: ☒ Yes ☐ No Custody Seal No: *Chae*

Cooler Temperature(s) °C and Other Remarks:

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	

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	



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.

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
 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 - 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
 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 - 2A 1' (H223032-02)

BTX 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 BTX	<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	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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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
 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 - 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, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	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
 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 - 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
 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 - 5A 1' (H223032-05)

BTX 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 BTX	<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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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
 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 - 6A 1' (H223032-06)

BTX 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 BTX	<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	1460	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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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
 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)

BTX 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 BTX	<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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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
 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 - 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	
Chloride	1250	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	16.3	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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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
 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 - 9A 1' (H223032-09)

BTX 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 BTX	<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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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
 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 - 10A 1' (H223032-10)

BTX 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 BTX	<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	576	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	11.0	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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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
 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 - 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, 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	10.1	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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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
 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 - 12A 0-6" (H223032-12)

BTX 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 BTX	<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	1570	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	10.6	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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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
 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 - 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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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
 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 - 14A 0-6" (H223032-14)

BTX 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 BTX	<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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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 - 15A 0-6" (H223032-15)

BTX 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 BTX	<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	1740	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*	23.6	10.0	07/14/2022	ND	198	99.1	200	2.39	
EXT DRO >C28-C36	19.8	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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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
 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 - 16A 0-6" (H223032-16)

BTX 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 BTX	<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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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
 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 - 17A 0-6" (H223032-17)

BTX 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 BTX	<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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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
 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 - 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
 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 - 19A 0-6" (H223032-19)

BTX 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 BTX	<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
 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 - 20A 0-6" (H223032-20)

BTX 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 BTX	<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
 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 - 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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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
 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 - 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, 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	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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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
 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: 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, 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 73.4 % 43-149

Surrogate: 1-Chlorooctadecane 79.8 % 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
 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: 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, 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 73.1 % 43-149

Surrogate: 1-Chlorooctadecane 78.2 % 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
 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: 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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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
 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: 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, 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 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
 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: 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
 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: 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, SM4500CI-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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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
 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: BH 1 7' (H223032-29)

BTX 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 BTX	<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	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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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
 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: 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, SM4500CI-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



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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: BH 2 1' (H223032-31)

BTX 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 BTX	<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



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
 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: BH 2 2' (H223032-32)

BTX 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 BTX	<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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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
 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: 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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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
 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: 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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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
 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: BH 3 1' (H223032-35)

BTX 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 BTX	<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	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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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
 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: BH 3 2' (H223032-36)

BTX 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 BTX	<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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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
 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: 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, SM4500CI-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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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
 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: 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, 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	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

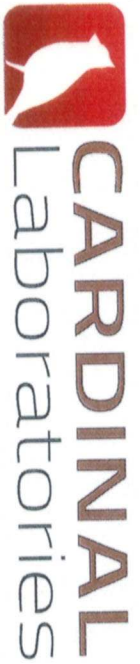
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

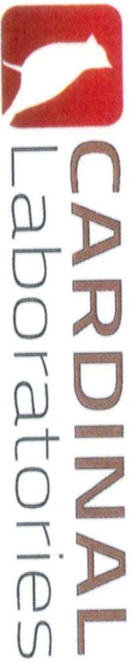


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		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 #: 702530-027.01		State:																	
Project Owner: Sullivan Oak SWP		Zip:																	
Project Location: EDDY		Phone #:																	
Sample Name: 12-3456		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.		SAMPLING											
				GROUNDWATER															
				WASTEWATER															
				SOIL															
				OIL															
				SLUDGE															
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															
				DATE	TIME														
1	5.1A			7/11	9:00	CL													
2	5.2A				9:05	BTep													
3	5.3A				9:10	TPH													
4	5.4A				9:15														
5	5.5A				9:20														
6	5.6A				9:25														
7	5.7A				9:30														
8	5.8A				9:35														
9	5.9A				9:40														
10	5.10A				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:		Date: 7/13/22	Received By: Shoddiquest																
Time: 12:15		Time:																	
Relinquished By:		Date:	Received By:																
Time:		Time:																	
Delivered By: (Circle One) 4.16/C-0.5c		Sample Condition		CHECKED BY:															
Cool		Cool		Cool															
Intact		Intact		Intact															
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No		No		No															
Sampler - UPS - Bus - Other: 3.5c #113		Fax Result:		Fax Result:															
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		No		No															
		Add'l Phone #:		Add'l Phone #:															
		Add'l Fax #:		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		BILL TO		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 #: 72520.027.01		Zip:			
Project Owner:		Phone #:			
Project Name: Sullivan Oak SWD		Fax #:			
Project Location: EDDY		PRESERV		SAMPLING	
Sampler Name: K. Parker					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME
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11	S.11A D-C				9:55
12	S.12A D-C				10:05
13	S.13A D-C				10:15
14	S.14A D-C				10:25
15	S.15A D-C				10:35
16	S.16A D-C				10:45
17	S.17A D-C				10:55
18	S.18A D-C				11:05
19	S.19A D-C				11:15
20	S.20A D-C				11:25
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CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address: 408 W. Texas Ave		Attn:					
City: Artesia		Address:					
Phone #: 575.746.8768		City:					
Fax #: 575.746.8768		State:					
Project #: 702520.071.01		Zip:					
Project Name: Skyway Oil		Phone #:					
Project Location: EDDY		Fax #:					
Sample Name: A-Packer		PRESERV		SAMPLING			
FOR LAB USE ONLY		MATRIX					
Lab I.D.		Sample I.D.					
11023032		5-21A O-6'		CL			
21		5-22A B-6'		BTEX			
22		5-23 1'		TDH			
23		5-24 1'					
24		5-25 0-6"					
25		5-26 0-6"					
26		5-27 5'					
27		5-28 1'					
28		5-29 1'					
29		5-30 8'					
30							
Relinquished By:		Date: 1/13/22		Received By: [Signature]			
Relinquished By:		Time: 12:15		Time: 1:20			
Delivered By: (Circle One) 4.1.12 C.O.C. 3.52 #113		Sample Condition		CHECKED BY: [Signature]			
Sampler - UPS - Bus - Other:		Cool Intact		Yes [X] No []			
		Yes [X] No []					



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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)

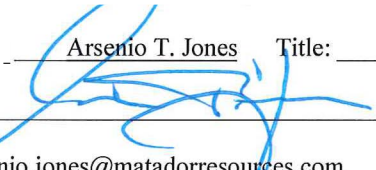
Cause of Release: Equipment Failure-fluid remained in containment on facility.

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:  Date: <u>6/15/2022</u> email: <u>arsenio.jones@matadorresources.com</u> Telephone: <u>575-361-4333</u>
<u>OCD Only</u> 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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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	nAPP2216632989
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



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



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
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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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