

Soil Assessment and Remediation Work Plan

Todd 36 State #001 Water Line Eddy County, New Mexico API # 30-015-20341, NAB1703948537 (2RP-4105)

Prepared For:

Devon Energy Production Company 6488 Seven Rivers Highway Artesia, New Mexico 88210

Prepared By:

TALON/LPE 408 West Texas Avenue Artesia, New Mexico 88210

December 10, 2020

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

Subject: Soil Assessment and Remediation Work Plan

Todd 36 State #001 Water Line Eddy County, New Mexico

API # 30-015-20341, NAB1703948537 (2RP-4105)

Dear Mr. Bratcher,

Devon Energy Production Company (Devon Energy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

The Todd 36 State #001 Water Line is located approximately thirty-five (35) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter I, Section 26, Township 23 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.269610 North and -103.744095 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kimbrough-Berino fine sands, 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of fine sand from eolian deposits. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer web site indicates that the nearest depth to groundwater is 430' below ground surface (BGS). See Appendix II for the referenced groundwater data. The incident occurred in a low potential karst area.

Site Characterization

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

Approximate Depth t	o Groundwater	430 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing watercourse any other significant watercourse	e or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake	
□Yes ⊠No	Within 300 feet from an occupied permanent residence school, hospital, institution or church	,
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic fresh well used by less than five households for domestic or watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spring Within incorporated municipal boundaries or within a de Municipal fresh water well field covered under a munici ordinance adopted pursuant to Section 3-2703 NMSA	pal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year floodplain	

While this release does not meet any of the criteria listed above, the impacted pipeline right-of-way is considered to be pasture area. Therefore, the closure criteria for this site are as follows:

	Tabl Closure Criteria for Soils	-	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On January 28, 2017, a bull plug inside of a tin horn failed, releasing approximately 70 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 2 bbls of this. The initial C-141 is attached in Appendix III. A site map illustrating the affected area is presented in Appendix I.

Site Assessment

On March 13, 2017, Talon mobilized personnel to conduct site assessment and soil sampling activities. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Subsequent vertical delineation was performed by an air rotary drill rig, but access to the impacted area was impeded by the sandy nature of the site. Results from these sampling events are presented in the following data table. A complete laboratory report can be found in Appendix V.

Table 1 : March 2017 Soil Sample Analysis

Table 1: Warch 2017 Soil Sample Analysis											
Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)		
	Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg		
	0	3/13/2017	NT	NT	NT	NT	NT	-	ND		
	1	3/13/2017	NT	NT	NT	NT	NT	-	ND		
S-1	2	3/13/2017	NT	NT	NT	NT	NT	-	ND		
	3	3/13/2017	NT	NT	NT	NT	NT	1	ND		
	4	3/13/2017	NT	NT	NT	NT	NT	-	ND		
	0	3/13/2017	NT	NT	NT	NT	NT	1	5440		
	1	3/13/2017	NT	NT	NT	NT	NT	-	6960		
S-2	2	3/13/2017	NT	NT	NT	NT	NT	1	7100		
3-2	3	3/13/2017	NT	NT	NT	NT	NT	1	6320		
	4	3/13/2017	NT	NT	NT	NT	NT	-	7700		
	5	3/13/2017	NT	NT	NT	NT	NT	-	9300		
	0	3/13/2017	NT	NT	NT	NT	NT	-	5200		
	1	3/13/2017	NT	NT	NT	NT	NT	-	7680		
S-3	2	3/13/2017	NT	NT	NT	NT	NT	-	5920		
3-3	3	3/13/2017	NT	NT	NT	NT	NT	-	14600		
	4	3/13/2017	NT	NT	NT	NT	NT	-	13600		
	5	3/13/2017	NT	NT	NT	NT	NT	-	12600		
	0	3/13/2017	NT	NT	NT	NT	NT	1	64		
S-4	1	3/13/2017	NT	NT	NT	NT	NT	-	32		
	2	3/13/2017	NT	NT	NT	NT	NT	-	ND		

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
	sure Cr 5.29.12		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	0	3/13/2017	NT	NT	NT	NT	NT	-	ND
S-5	1	3/13/2017	NT	NT	NT	NT	NT	-	32
	2	3/13/2017	NT	NT	NT	NT	NT	-	ND
	0	3/13/2017	NT	NT	NT	NT	NT	-	1260
	1	3/13/2017	NT	NT	NT	NT	NT	-	144
S-6	2	3/13/2017	NT	NT	NT	NT	NT	-	6500
3-0	3	3/13/2017	NT	NT	NT	NT	NT	-	6800
	4	3/13/2017	NT	NT	NT	NT	NT	-	12000
	5	3/13/2017	NT	NT	NT	NT	NT	-	10800
	0	3/13/2017	NT	NT	NT	NT	NT	-	4320
	1	3/13/2017	NT	NT	NT	NT	NT	-	6800
6.7	2	3/13/2017	NT	NT	NT	NT	NT	-	6240
S-7	3	3/13/2017	NT	NT	NT	NT	NT	-	6480
	4	3/13/2017	NT	NT	NT	NT	NT	-	10800
	5	3/13/2017	NT	NT	NT	NT	NT	-	928
	0	3/13/2017	NT	NT	NT	NT	NT	-	64
S-8	1	3/13/2017	NT	NT	NT	NT	NT	-	16
	2	3/13/2017	NT	NT	NT	NT	NT	-	32
	0	3/13/2017	NT	NT	NT	NT	NT	-	32
S-9	1	3/13/2017	NT	NT	NT	NT	NT	-	16
	2	3/13/2017	NT	NT	NT	NT	NT	-	ND
	0	3/13/2017	NT	NT	NT	NT	NT	-	ND
S-10	1	3/13/2017	NT	NT	NT	NT	NT	-	ND
	2	3/13/2017	NT	NT	NT	NT	NT	-	16
	0	3/13/2017	ND	ND	ND	123	NT	123.0	976
	1	3/13/2017	ND	ND	ND	285	NT	285.0	448
6.44	2	3/13/2017	ND	ND	ND	239	NT	239.0	2560
S-11	3	3/13/2017	ND	ND	ND	738	NT	738.0	3320
	4	3/13/2017	ND	ND	ND	2150	NT	2150.0	4320
	5	3/13/2017	ND	ND	ND	ND	NT	-	12200

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg	
	6	3/16/2017	NT	NT	NT	NT	NT	-	272
	8	3/16/2017	NT	NT	NT	NT	NT	-	64
	10	3/16/2017	NT	NT	NT	NT	NT	-	80
BH-1	15	3/16/2017	NT	NT	NT	NT	NT	-	32
	20	3/16/2017	NT	NT	NT	NT	NT	-	96
	25	3/16/2017	NT	NT	NT	NT	NT	-	96
	30	3/16/2017	NT	NT	NT	NT	NT	-	128

ND= Analyte Not Detected NT= Analyte Not Tested

On September 18, 2020, following client approval, Talon returned in order to vertically delineate the site using a skid-steer mounted Geoprobe (direct-push technology). Results from this and further sampling events can be found below.

Table 2 : September & October 2020 Soil Sample Analysis

		Z . Ocpiciii	201 G 0	CCOOC. IC	20 0011	oumpio i	, inary ore	-	
Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	0-1	9/18/2020	ND	ND	ND	ND	ND	-	10.9
	2	9/18/2020	ND	ND	ND	ND	ND	1	89.4
	3	9/18/2020	ND	ND	ND	ND	ND	1	149
	4	9/18/2020	ND	ND	ND	ND	ND	-	634
S-2	6	9/18/2020	ND	ND	ND	ND	ND	1	2800
3-2	8	9/18/2020	ND	ND	ND	ND	ND	1	6000
	10	9/18/2020	ND	ND	ND	ND	ND	ı	7560
	12	9/18/2020	ND	ND	ND	ND	ND	-	7680
	15	10/15/2020	NT	NT	NT	NT	NT	-	65
	20	10/15/2020	NT	NT	NT	NT	NT	-	90

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	CI (mg/kg)
	losure Cr 15.29.12		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	0-1	9/18/2020	ND	ND	ND	ND	ND	-	16.9
	2	9/18/2020	ND	ND	ND	ND	ND	-	15.4
	3	9/18/2020	ND	ND	ND	ND	ND	-	63.7
S-3	4	9/18/2020	ND	ND	ND	ND	ND	-	1280
3-3	6	9/18/2020	ND	ND	ND	ND	ND	-	2060
	8	9/18/2020	ND	ND	ND	ND	ND	-	1530
	10	9/18/2020	ND	ND	ND	ND	ND	-	5590
	12	9/18/2020	ND	ND	ND	ND	ND	-	12.4
	0-1	9/18/2020	ND	ND	ND	ND	ND	-	6360
	2	9/18/2020	ND	ND	ND	ND	ND	-	11.9
	3	9/18/2020	ND	ND	ND	ND	ND	-	23.8
	4	9/18/2020	ND	ND	ND	ND	ND	-	221
C C	6	9/18/2020	ND	ND	ND	ND	ND	-	575
S-6	8	9/18/2020	ND	ND	ND	ND	ND	-	1760
	10	9/18/2020	ND	ND	ND	ND	ND	-	4230
	12	9/18/2020	ND	ND	ND	ND	ND	-	6840
	15	11/4/2020	NT	NT	NT	NT	NT	-	ND
	20	11/4/2020	NT	NT	NT	NT	NT	-	85
	0-1	9/18/2020	ND	ND	ND	ND	ND	-	264
	2	9/18/2020	ND	ND	ND	ND	ND	-	19.3
	3	9/18/2020	ND	ND	ND	ND	ND	-	31.7
6.7	4	9/18/2020	ND	ND	ND	ND	ND	-	225
S-7	6	9/18/2020	ND	ND	ND	ND	ND	-	1050
	8	9/18/2020	ND	ND	ND	ND	ND	-	1180
	10	11/4/2020	NT	NT	NT	NT	NT	-	580
	12	11/4/2020	NT	NT	NT	NT	NT	-	86
	0-1	9/18/2020	ND	ND	ND	ND	ND	-	8.42
	2	9/18/2020	ND	ND	ND	ND	ND	-	80
	3	9/18/2020	ND	ND	ND	ND	ND	-	807
6.44	4	9/18/2020	ND	ND	ND	ND	ND	-	2090
S-11	6	9/18/2020	ND	ND	ND	ND	ND	-	1250
	8	9/18/2020	ND	ND	ND	ND	ND	-	5560
	10	9/18/2020	ND	ND	ND	ND	ND	-	5690
	12	9/18/2020	ND	ND	ND	ND	ND	-	22.1

Proposed Remedial Actions

- At this time we are requesting that final remediation and reclamation be deferred until such time as all infrastructure is removed and the area is no longer in use for production operations, in accordance with 19.15.29.12 and 19.15.29.13 NMAC. The mitigating factors are:
 - There are several underground utilities, including fiberglass water lines and polylines conducting petroleum, running directly through and nearby the impact area. Any subsurface excavation could unintentionally impact one of these, causing greater harm to the local environment.
 - During this time period our soil boring data demonstrates that chloride ions have leached to depths of 3 to 4-feet BGS in most cases. This is below the root zone depth of the local shinnery sands ecosystem.
 - Water table depth is reported at 430' BGS, and is therefore unlikely to be impacted by this release. A boring log detailing the subsurface profile of a site 0.17 miles away is included in Appendix II. No groundwater was encountered to a depth of 80-feet.
 - All vegetation surrounding the site appears to be healthy and could be adversely impacted by the mobilization of heavy equipment. In addition, any large vehicles and mechanized equipment are very likely to become immobilized due to the loose, sandy nature of the soil found here.

Closure

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

Brandon Sinclair David J. Adkins
Project Manager Regional Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data & Boring Logs

Appendix III C-141 Forms

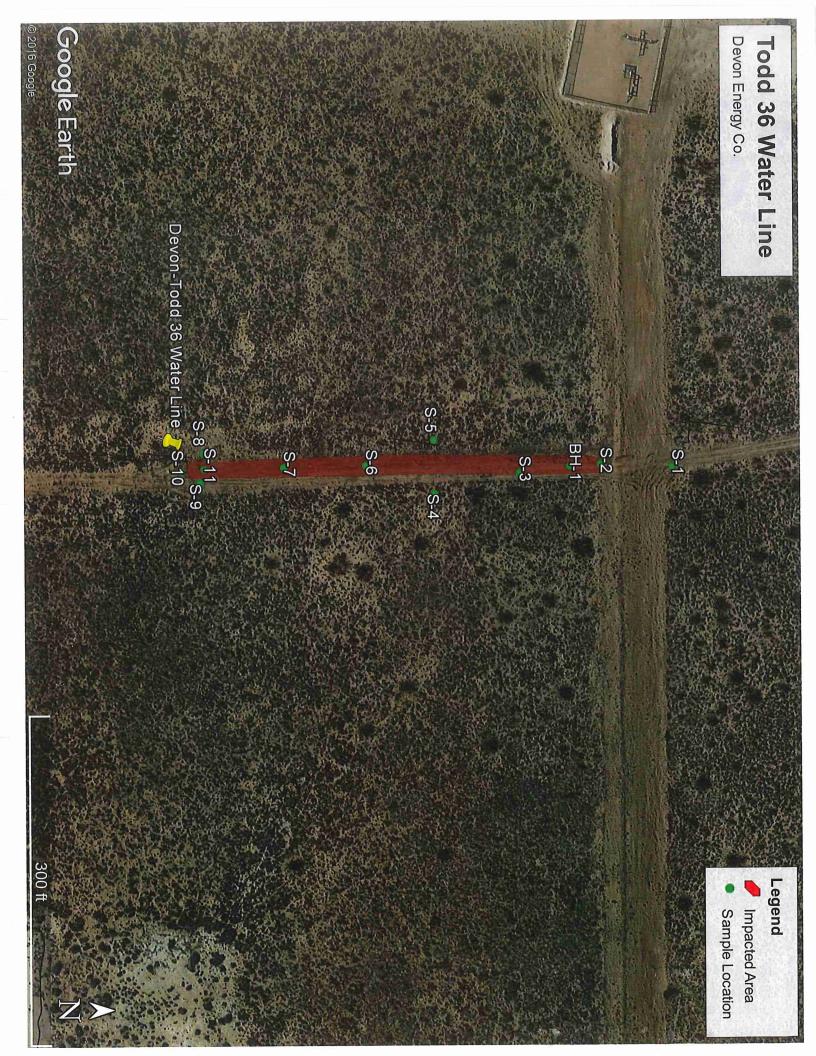
Appendix IV Photographic Documentation

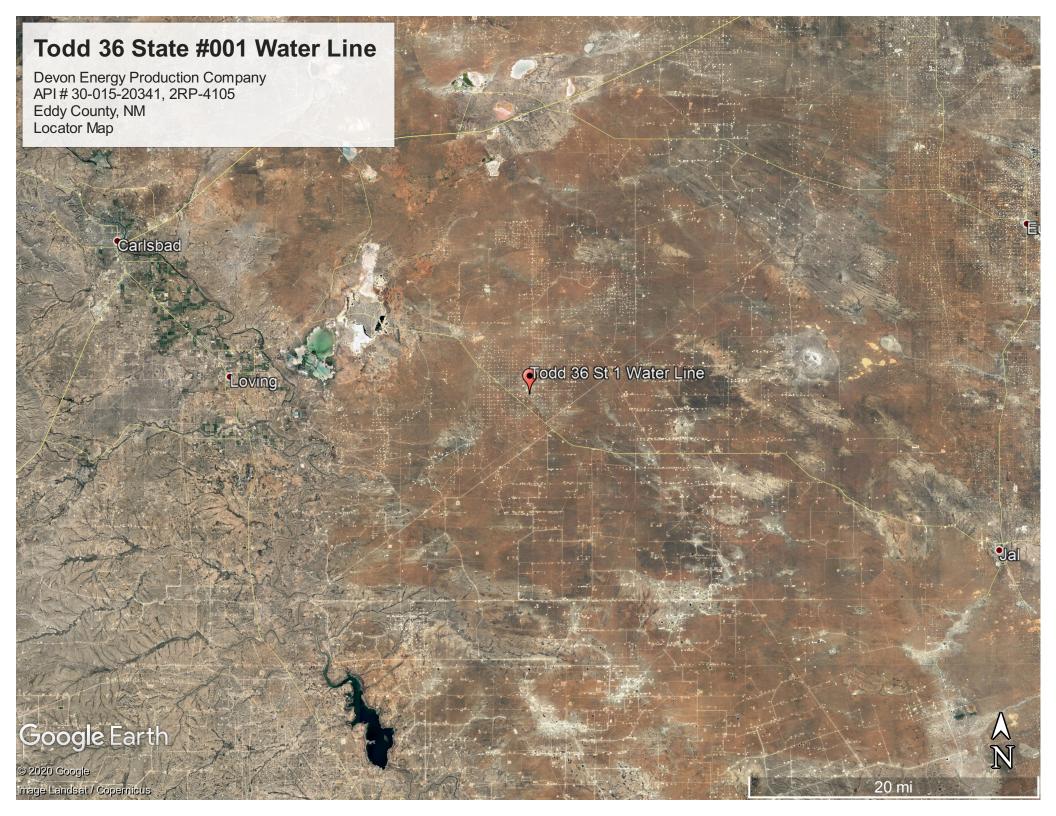
Appendix V Laboratory Data

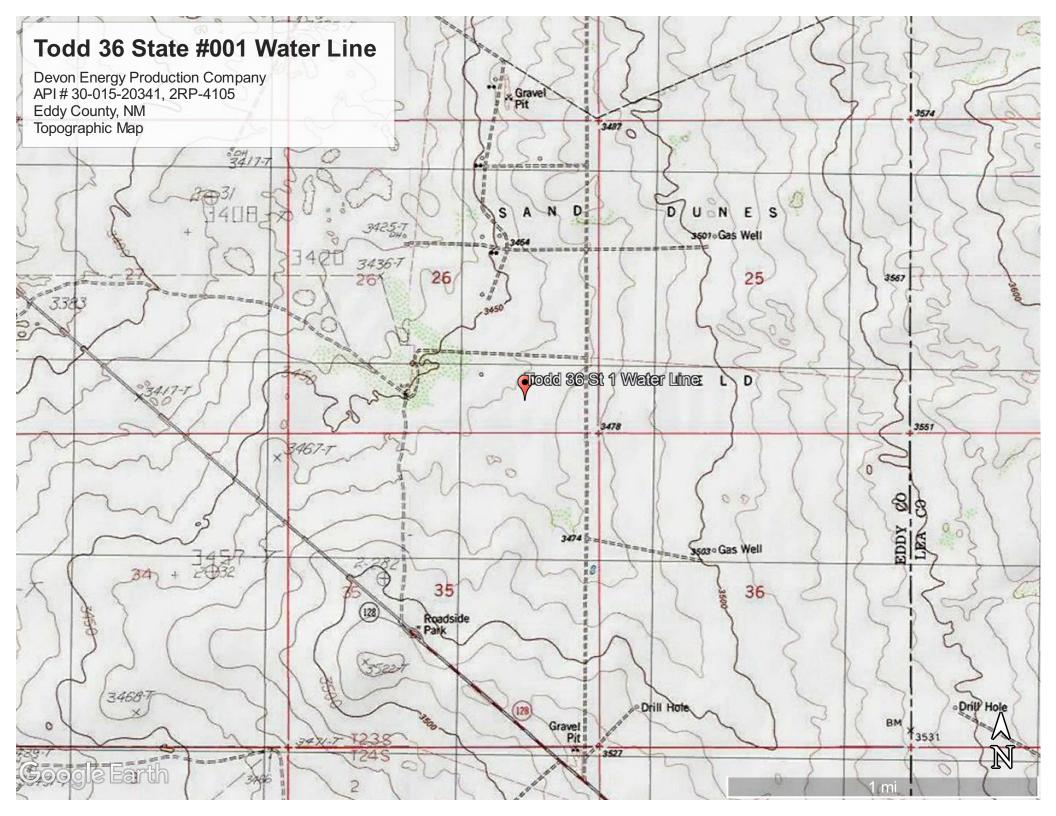


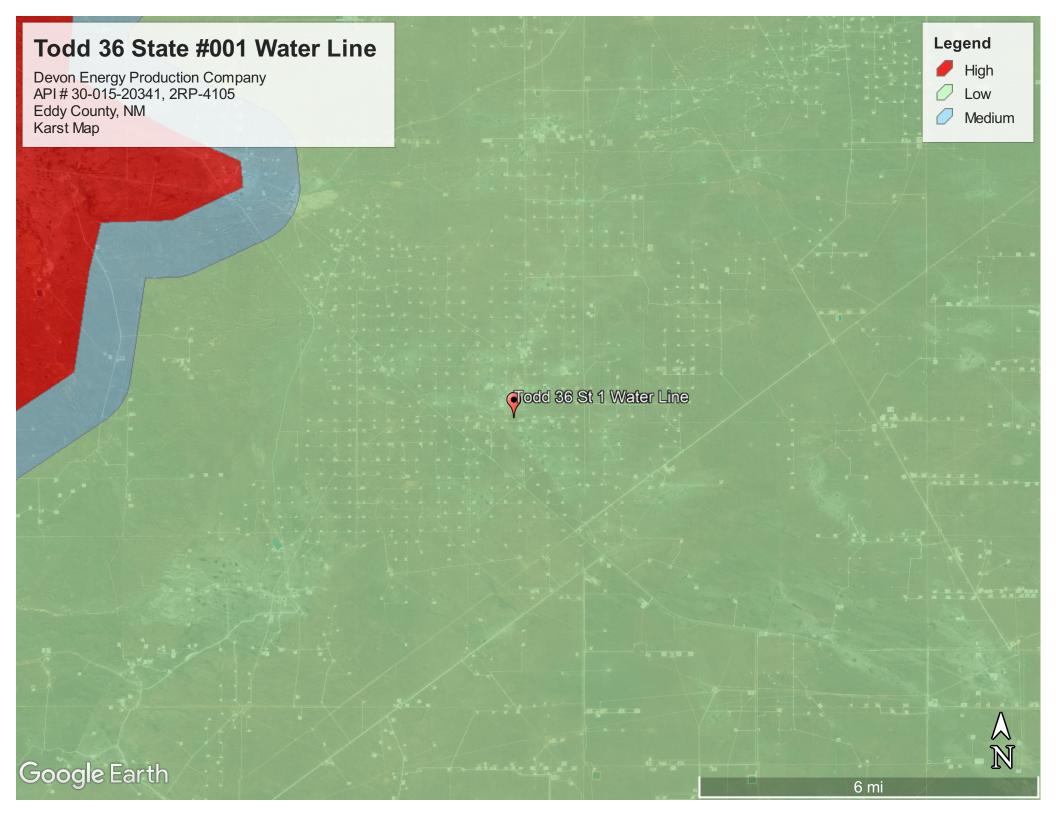
APPENDIX I

SITE MAPS











<u>APPENDIX II</u>

SOIL BORING LOG

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD MAP



BORING LOG

Project No.: 700794.216.01

Site Name: Todd 36 St 1 Release

Location: Eddy County, NM

Date: 10/14/2020

Boring Number: B-2

Weather: Sunny Temp.: 85 °F

Logger: Brandon Sinclair

Field Instrument: CL Titration

Latitude: 32°, 16', 19.05" N

Longitude: 103°, 44', 41.17" W

Driller: Devin Londagin

Rig Type: Reich Drill

Bit Size: 5 7/8"

Drilling Method: Air Rotary

Sample Retrieval Method: Split Spoon

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	SOSO	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
		0-3'				Gray slightly silty fine Sand (SP-SM)	None	
		3-8'				Light brown fine Sand (SP)	None	
		8-10'				White fine Sand (SP) with varying amounts of cemented caliche	None	
	Althorases	10-15'				Pinkish-white to light red/brown fine Sand (SP) with cemented calcite	None	
	- Continue of the Continue of	15-30'				Red/brown fine Sand (SP) with trace amounts of silt	None	
	Parameter Annual State of the S	30-50'				Red/brown to brown fine sand (SP)	None	
	THE PROPERTY OF THE PROPERTY O	50-70'				Light red/brown fine sand (SP)	None	
		70-80'				Gray/brown fine sand (SP)	None	
		9					None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
Notes:	e Elevat TD @ r Initials	80', Grour	ndwater n	ot end	countered		~ I	



New Mexico Office of the State Engineer Water Column/Average Depth to Water

POD suffix indicates the POD has been replaced & no longer serves a water right

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													
		Sub-		Q	Q	Q								,	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Υ	DistanceDe	pthWellDep	thWater C	olumn
C 02348		С	ED	1	4	3	26	23S	31E	617648	3571068	636	700	430	270
C 02258		С	ED		3	2	26	23S	31E	618055	3571853*	871	662		
C 02405		CUB	ED		4	1	02	24S	31E	617690	3568631*	2453	275	160	115
C 02464		С	ED	2	3	1	02	248	31E	617645	3568581 🎒	2512	320	205	115

Average Depth to Water:

265 feet

Minimum Depth:

160 feet

Maximum Depth:

430 feet

Record Count:4

UTMNAD83 Radius Search (in meters):

Easting (X): 618281.61

Northing (Y): 3571011.6

Radius: 3000

*UTM location was derived from PLSS - see Help

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

11/11/20 1:53 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Kermit

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very

high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

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

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

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 capacity: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

Data Source Information

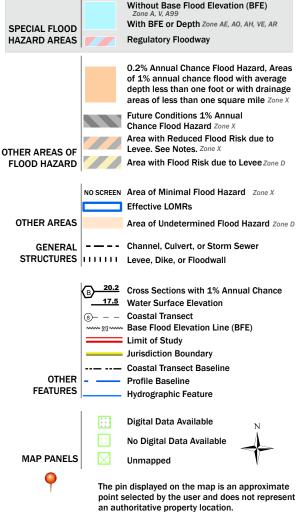
Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette



Legend

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/13/2020 at 1:43 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





APPENDIX III

INITIAL C-141

NM OIL CONSERVATION ARTESIA DISTRICT

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe NM 87505

Form C-141 Revised August 8, 2011

FEB 61 2017

Submit 1 Copy to appropriate District Office in

accordance with 19.15.29 NMAC. RECEIVED

					III I	c, 14141 075	05						
			Rele	ase Notific	atio	n and Co	rrective A	ction					
DARI	7030	14853	7			OPERA	ГOR			l Report		Final Report	
				ion Company/	137		esley Ryan, Pro	duction					
		Rivers Hwy					No. 575-390-54						
Facility Na	me Todd 3	36 State 1/In	jection li	ne		Facility Ty	pe Salt Water D	isposal					
Surface Ow	vner State	Federal		Mineral (Owner	State/Federa	al		API No	30-015-20)341		
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County			
F	36	238	31E	1980		North	1980	V	Vest	Eddy			
	<u> </u>	Lat	itude: N	32.2626877		1	Longitude: W	-103.73	36273				
				NAT	URE	OF RELI	EASE						
Type of Rele		ed water					Release 70 BBL			Recovered 2			
Source of Re Bull plug	elease					Date and 1 1/28/2017	Hour of Occurre	ence		Hour of Di @ 1:30pm	scover	y	
Was Immedi	iate Notice	Given?				If YES, To			1/26/201/	@ 1.30piii			
			Yes	No Not Re	equired	BLM-Shel OCD-Mike	ly Tucker						
By Whom?	Wesley Rya	n, Production	Foreman			Date and I							
						BLM-1/28/2017 @ 7:05pm OCD-1/29/2017 @ 8:00am							
Was a Water	rcourse Re	ached?					olume Impacting		tercourse				
			Yes 🛚	No		N/A		,					
If a Waterco N/A													
	inside the the the the	tin horn becan 5 State 1 SWD	ne loose re	ion Taken.* esulting in a release ups were turned o									
pasture. The	ly 70 BBLS released pro	s produced was oduced water t	ter was rel	aken.* leased from a bull a Northern directi- uced water. A rer	on awa	y from the tin	horn. The approx	cimate si	ze of the re				
regulations al public health should their o	I operators or the envir operations hament. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptance dequately OCD accep	is true and comp ad/or file certain re e of a C-141 repo investigate and re tance of a C-141	elease r ort by the emediat	otifications and e NMOCD made contamination at the contamination and the contamination are contaminations.	nd perform correct arked as "Final R on that pose a thr	ctive acti teport" d reat to gr	ons for rele oes not reli ound water	eases which eve the open s, surface wa	may e rator o iter, hu	ndanger f liability man health	
G:	a sala Ca	allogae T	الماريد	 			OIL CON	SERV	ATION	DIVISIO	<u>N</u>		
Signature: So				rew		Approved by	Signed By Environmental S	necialis!	fg Sie	ATTHE STE	·-		
Title: Field A					Approval Date: 217117 Expiration Date: N/A				A				
E-mail Addre	ess: Sarah.C	iallegos-Troub	olefield@c	lvn.com		Conditions of	Approval:		1	Attached	A		
Date: 1/31/20)17	Pł	none: 575.	748.1864		Sl	e attac	na	<u>L</u>		人		

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/1/7 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2P-4/05 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District of office in Arctic on on or before 3/15/11. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:

Gallegos-Troublefield, Sarah <Sarah.Gallegos-Troublefield@dvn.com>

Sent:

Wednesday, February 1, 2017 10:16 AM

To:

Tucker, Shelly; jamos@blm.gov; Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD

Cc:

Fulks, Brett; Shoemaker, Mike

Subject:

Todd 36 State 1_70 BBLS PW_1-28-2017_Initial C-141

Attachments:

Todd 36 State 1_70 BBLS PW_1-28-2017_GIS Image.pdf; Todd 36 State 1_70 BBLS PW_

1-28-2017_Initial C-141.doc

Good Morning,

Please find attached the Initial C-141 and GIS Image of the Todd 36 State 1 release of 70 BBLS produced water that occurred on 1/28/2017. Please be advised that the blue dot on the GIS Image represents the approximate location of the origin of release.

Please contact me with any questions you may have.

Thank you very much and have a wonderful day.

Respectfully,

Sarah Galleges Troublefield
Field Admin Support

Production

Devon Energy Corporation P.O. Box 250 Artesia, NM 88211 575 748 1864 Direct Line



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Form C-141 Page 3

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

State of New Mexico Oil Conservation Division

Incident ID	NAB1703948537
District RP	2RP-4105
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?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No
attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ical extents of soil
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	

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.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	NAB1703948537
District RP	2RP-4105
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: Brandon Sinclair	Title: Environmental Project Manager								
Signature: Kronks Link	Date: 11-13-2020								
email: bsinclair@talonlpe.com	Telephone: 575-746-8768								
	•								
OCD Only									
Received by:	Date:								

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	NAB1703948537
District RP	2RP-4105
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) 											
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed 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 healt	h, 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: Brandon Sinclair	Title: Environmental Project Manager										
Signature: Rw Link	Date: 11-11-2020										
email: bsinclair@talonlpe.com	Telephone: 575-746-8768										
OCD Only											
Received by:	Date:										
Approved Approved with Attached Conditions of	Approval										
Signature:	Date:										



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Todd 36 State #001 Water Line Assessment Photographs



Todd 36 State #001 Water Line Assessment Photographs



Todd 36 State #001 Water Line Assessment Photographs





<u>APPENDIX V</u>

LABORATORY DATA



March 16, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 36 ST #1

Enclosed are the results of analyses for samples received by the laboratory on 03/14/17 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.qov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Reported: 03/16/2017

Project Name: TODD 36 ST #1 Project Number: 700794,216.01

Project Location:

EDDY CO.

03/14/2017

Sampling Date:

BS

03/13/2017 Soil

% Recovery

Sampling Type: Sampling Condition:

** (See Notes)

True Value QC

Sample Received By:

Tamara Oldaker

RPD

Qualifier

Sample ID: S-1 0' (H700666-01)

Received:

Analyzed By: AC Chloride, SM4500Cl-B mg/kg

Result

Reporting Limit Analyte 3.77 03/15/2017 ND 432 108 400 <16.0 16.0 Chloride

Method Blank

Analyzed

Sample ID: S-1 1' (H700666-02)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg True Value QC RPD Qualifier Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery

400 3.77 03/15/2017 ND 432 108 Chloride <16.0 16,0

Sample ID: S-1 2' (H700666-03)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Method Blank BS % Recovery True Value QC RPD Qualifier Analyte Result Reporting Limit Analyzed <16.0 16.0 03/15/2017 ND 432 108 400 3.77 Chloride

Sample ID: S-1 3' (H700666-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC True Value OC RPD Qualifier Result Reporting Limit Analyzed Method Blank BS % Recovery Analyte 108 400 3.77 03/15/2017 ND 432 Chloride <16.0 16.0

Cardinal Laboratories

*=Accredited Analyte

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Celeg Ditrema



Analytical Results For:

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

Received: Reported: 03/14/2017

Project Name:

Project Number:

Project Location:

03/16/2017

TODD 36 ST #1 700794.216.01

EDDY CO.

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

03/13/2017

Soil

** (See Notes)

Tamara Oldaker

Sample ID: S-1 4' (H700666-05)

Chloride, SM4500Cl-B	mg/kg Analyzed E			d By: AC	y: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2017	ND	432	108	400	3.77	

Sample ID: S- 2 0' (H700666-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/15/2017	ND	432	108	400	3.77	

Sample ID: S-2 1' (H700666-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	03/15/2017	ND	432	108	400	3.77	

Sample ID: S- 2 2' (H700666-08)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7100	16.0	03/15/2017	ND	416	104	400	0.00	QM-07	

Sample ID: S- 2 3' (H700666-09)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: AC						·····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	03/15/2017	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celly D. Keens



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

Received:

03/14/2017

Reported:

03/16/2017

Project Name: Project Number: TODD 36 ST #1 700794,216.01

Project Location:

Sampling Date:

Sampling Type:

03/13/2017

Sampling Condition:

Soll ** (See Notes)

Sample Received By:

Tamara Oldaker

EDDY CO.

Sample ID: S- 2 4' (H700666-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Result Reporting Limit Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

7700

Result

9300

Result

5200

Result

7680

Result

5920

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

16.0

03/15/2017

03/15/2017

Analyzed

03/15/2017

ND

416

104

104

400

0.00

Sample ID: S- 2 5' (H700666-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank ND

% Recovery

BS

416

BS

416

RS

416

416

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S- 3 0' (H700666-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

400

RPD

Qualifier

Chloride

Chloride

Chloride

Sample ID: S-3 1' (H700666-13)

mg/kg

Analyzed By: AC

104

104

104

0.00

Chloride, SM4500Cl-B

Analyte

Analyte

Analyzed

03/15/2017

03/15/2017

Method Blank ND

ND

% Recovery

True Value QC

400

RPD

0.00

0.00

Oualifier

Sample ID: S- 3 2' (H700666-14)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed Method Blank

ND

BS % Recovery

True Value QC

400

RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

03/14/2017

Reported: Project Name: 03/16/2017

Project Number:

TODD 36 ST #1 700794,216.01

Project Location:

EDDY CO,

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S-3 3' (H700666-15)

Chloride, SM4500CI-B	mg	/kg	Analyzo	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	03/15/2017	ND	416	104	400	0.00	
Sample ID: S- 3 4' (H700	0666-16)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	03/15/2017	ND	416	104	400	0.00	
Sample ID: S- 3 5' (H700 Chloride, SM4500Cl-B	9 666-17) mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	03/15/2017	ND	416	104	400	0.00	Qualifier
Chioride	12000	16,0	03/15/2017	ND	410	104	400	0.00	
Sample ID: S- 4 0' (H700	666-18)								
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/15/2017	ND	416	104	400	0.00	
Sample ID: S- 4 1' (H700	666-19)								
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2017	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene



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

Received:

03/14/2017

Reported:

03/16/2017

Project Name:

TODD 36 ST #1 700794.216.01

Project Number: Project Location:

Analyte

EDDY CO.

Result

<16.0

Result

<16.0

Result

32.0

Result

<16.0

Result

1260

Sampling Date:

Sampling Type:

Soil ** (See Notes)

03/13/2017

Sampling Condition: Sample Received By:

416

BS

416

BS

416

BS

416

BS

416

Tamara Oldaker

Sample ID: S- 4 2' (H700666-20)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

Chloride

mg/kg

Reporting Limit

16.0

Analyzed By: AC

Analyzed

03/15/2017

Method Blank

ND

ND

BS % Recovery

True Value QC 400

RPD 0.00

Qualifier

Sample ID: S- 5 0' (H700666-21)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed

03/15/2017

Analyzed

03/15/2017

Analyzed

03/15/2017

Analyzed

03/15/2017

Method Blank

% Recovery

104

104

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S- 5 1' (H700666-22)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery 104

True Value QC

400

RPD 0.00

Qualifier

Sample ID: S- 5 2' (H700666-23)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank ND

% Recovery

104

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S- 6 0' (H700666-24)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

104

True Value QC

400

RPD

0.00

Qualifier

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(575) 745-8905

Received:

03/14/2017

Reported:

03/16/2017

Project Name:

TODD 36 ST #1

Project Number: Project Location: 700794.216.01 EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 6 1' (H700666-25)

Chloride,	SM4500CI-B
-----------	------------

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit Analyzed

Method Blank

% Recovery

True Value QC

RPD 0.00

Qualifier

Chloride

144

16.0

Reporting Limit

03/15/2017

ND

104

400

Sample ID: S- 6 2' (H700666-26)

Chloride,	SM4500Cl-B	

Analyte

Analyte

Analyte

Analyte

	mg/kg

	Anai	yzed	By: AC

Analyzed

Method Blank

% Recovery

104

True Value QC

Qualifier

Chloride

Result 6500

03/15/2017 16.0

ND

416

BS

416

400

RPD

0.00

Sample ID: S- 6 3' (H700666-27)

Chlo	rida.	SM45	nnc	I-R

mg/kg

Analyzed By: AC

% Recovery

True Value QC

Chloride

Chloride

Chloride

Result 6800

Result

12000

Result

10800

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 03/15/2017 Method Blank ND

BS 416

104

RPD

Qualifier

Sample ID: S- 6 4' (H700666-28)

Chla	rido	SM4500Cl-B	

Analyzed By: AC

400

0.00

mg/kg

Analyzed

03/15/2017

Method Blank ND

BS 400 % Recovery 100

100

True Value QC 400

RPD

7,69

7.69

Qualifier OM-07

Sample ID: S- 6 5' (H700666-29)

Chloride.	SM4500Cl-	В

mg/kg

Analyzed By: AC

Analyzed

03/15/2017

Method Blank ND

BS % Recovery

400

True Value QC

400

RPD Qualifier

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Received:

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Reported:

03/16/2017

Project Name:

TODD 36 ST #1 700794.216.01

Project Number: Project Location:

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 7 0' (H700666-30)

Chloride, SM4500CI-B

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Reporting Limit

Result

4320

Analyzed By: AC

Method Blank BS

% Recovery 100

True Value QC 400

RPD 7,69

Qualifier

Analyte

Analyte

Analyte

Analyte

Sample ID: S- 7 1' (H700666-31)

mg/kg

Analyzed By: AC

Analyzed Method Blank

Analyzed By: AC

BS

400

% Recovery

Qualifier

Chloride

Chloride

6800

Result

16.0 03/15/2017

ND

ND

400

100

400

True Value QC

RPD 7.69

Chloride

Sample ID: S-7 2' (H700666-32)

Chloride, SM4500Cl-B

mg/kg Result

6240

Reporting Limit

16.0

Analyzed 03/15/2017

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 7.69 Qualifier

Sample ID: S- 7 3' (H700666-33)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS % Recovery

True Value QC

Qualifier

Chloride

Result 6480 Reporting Limit 16,0

03/15/2017

ND

400

100

400

RPD 7,69

Sample ID: S- 7 4' (H700666-34)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Chloride

Result 10800 Reporting Limit 16.0

Analyzed 03/15/2017 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

Qualifier RPD 7.69

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Celey D. Keene, Lab Director/Quality Manager

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Received:

03/14/2017

Reported:

03/16/2017

Project Name:

TODD 36 ST #1 700794.216.01

Project Number: Project Location:

Analyte

Analyte

EDDY CO.

Result

928

Sampling Date:

BS

400

03/13/2017

Sampling Type:

Soil ** (See Notes)

Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: S- 7 5' (H700666-35)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

03/15/2017

Analyzed

Method Blank

ND

% Recovery

100

True Value QC 400

RPD 7,69

Qualifier

Sample ID: S- 8 0' (H700666-36)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

BS % Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride

Chloride

Chloride

Result 64.0

03/15/2017 16.0

Reporting Limit

16.0

Reporting Limit

400

100

400

7.69

Sample ID: S- 8 1' (H700666-37) Chloride, SM4500Cl-B

16.0

Result

32.0

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

mg/kg

Analyzed 03/15/2017 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 7.69 Qualifier

Sample ID: S- 8 2' (H700666-38)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

Method Blank ND

BS 400 % Recovery 100

100

True Value QC 400

400

RPD

7.69

Qualifier

Sample ID: S- 9 0' (H700666-39)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result 32.0

Reporting Limit 16.0

Analyzed 03/15/2017

03/15/2017

Method Blank ND

BS

400

True Value QC % Recovery

RPD 7.69 Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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03/14/2017 Received: Reported:

03/16/2017 TODD 36 ST #1

Project Name: Project Number: Project Location:

Analyte

700794.216.01 EDDY CO.

Sampling Date:

BS

400

BS

400

03/13/2017

Sampling Type: Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 9 1' (H700666-40)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Reporting Limit

16.0

16.0

Result

16.0

Result

<16.0

Analyzed By: AC

03/15/2017

Analyzed Method Blank % Recovery 100

True Value QC 400

RPD 7.69

7.69

Qualifier

Sample ID: S- 9 2' (H700666-41)

Chioride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Reporting Limit Analyzed

03/15/2017

Method Blank ND

ND

% Recovery 100

True Value QC

400

RPD

Qualifier

Sample ID: S- 10 0' (H700666-42)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Chloride

Result Reporting Limit 16.0 16.0

Reporting Limit

16.0

16.0

Analyzed 03/15/2017

Analyzed

03/15/2017

Method Blank ND

Method Blank

ND

BS 400 True Value QC 400

RPD

7.69

7.69

7.69

Qualifier

Sample ID: S- 10 1' (H700666-43)

Chloride, SM4500Cl-B

Analyte

mg/kg

Result

<16.0

16.0

Analyzed By: AC

BS

400

400

% Recovery

100

100

% Recovery

100

True Value QC

400

400

RPD

Qualifier

Sample ID: S- 10 2' (H700666-44)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 03/15/2017 Method Blank ND

BS % Recovery

True Value QC

RPD

Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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Received:

03/14/2017

Reported:

03/16/2017

Project Name:

TODD 36 ST #1 700794.216.01

Project Number: Project Location:

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 0' (H700666-45)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2017	ND	1,97	98.6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/15/2017	ND	1.83	91.5	2.00	1.59	
Total Xylenes*	<0.150	0,150	03/15/2017	ND	5.22	86.9	6.00	1.74	
Total BTEX	<0.300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/l	kg	Analyze	d By: MS		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2017	ND	221	111	200	1.31	
DRO >C10-C28	123	10.0	03/15/2017	ND	234	117	200	2.19	
Surrogate: 1-Chlorooctane	112 %	25.1-158		***************************************					man and combined sections (Author) 1111 1111 1111 1111 1111 1111 1111 1
Surrogate: 1-Chlorooctadecane	139 %	3 26.8-170	i						

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03/16/2017

Project Name: Project Number: TODD 36 ST #1 700794,216,01

Project Location:

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 1' (H700666-46)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2017	ND	1.97	98.6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2.00	1.47	
Ethylbenzene*.	<0.050	0.050	03/15/2017	ND	1,83	91.5	2,00	1.59	
Total Xylenes*	<0.150	0.150	03/15/2017	ND	5.22	86.9	6.00	1.74	
Total BTEX	<0.300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC				0,00,000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/15/2017	ND	221	111	200	1,31	
DRO >C10-C28	285	50.0	03/15/2017	ND	234	117	200	2.19	
Surrogate: 1-Chlorooctane	107 %	6 25.1-158	3						
Surrogate: 1-Chlorooctadecane	133 %	6 26.8-170)						

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Reported:

03/16/2017

Project Name:

TODD 36 ST #1 700794,216,01

Project Number: Project Location:

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 2' (H700666-47)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/15/2017	ND	1.97	98.6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2,00	1.47	
Ethylbenzene*	<0.050	0.050	03/15/2017	ND	1,83	91.5	2.00	1.59	
Total Xylenes*	<0.150	0,150	03/15/2017	ND	5,22	86.9	6.00	1.74	
Total BTEX	<0,300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	03/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/15/2017	ND	221	111	200	1.31	
DRO >C10-C28	239	50.0	03/15/2017	ND	234	117	200	2.19	
Surrogate: 1-Chlorooctane	112 %	25.1-15	8						
Surrogate: 1-Chlorooctadecane	136 %	26.8-170	0						

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Reported:

03/16/2017

Project Name:

TODD 36 ST #1

Project Number: Project Location: 700794.216,01 EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 3' (H700666-48)

BTEX 8021B	mg,	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2017	ND	1.97	98,6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/15/2017	ND	1.83	91.5	2.00	1.59	
Total Xylenes*	<0.150	0,150	03/15/2017	ND	5.22	86.9	6.00	1.74	
Total BTEX	<0.300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 72-148	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	03/15/2017	ND	400	100	400	7.69	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/15/2017	ND	221	111	200	1.31	
DRO >C10-C28	738	50.0	03/15/2017	ND .	234	117	200	2.19	
Surrogate: 1-Chlorooctane	111 %	6 25.1-158	3						
Surrogate: 1-Chlorooctadecane	158 %	6 26.8-170)						

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Celey D. Keene, Lab Director/Quality Manager



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Received: Reported: 03/14/2017

03/16/2017

Project Name:

TODD 36 ST #1

Project Number: Project Location: 700794.216.01

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 4' (H700666-49)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2017	ND	1.97	98.6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/15/2017	ND	1.83	91,5	2.00	1.59	
Total Xylenes*	<0.150	0.150	03/15/2017	ND	5.22	86.9	6.00	1.74	
Total BTEX	<0.300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/15/2017	ND	221	111	200	1.31	
DRO >C10-C28	2150	50.0	03/15/2017	ND	234	117	200	2.19	
Surrogate: 1-Chlorooctane	113 %	3 25.1-158	}						
Surrogate: 1-Chlorooctadecane	175 %	26.8-170)						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & treene



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

Fax To:

(575) 745-8905

Received:

03/14/2017

Reported: Project Name:

03/16/2017 TODD 36 ST #1

Project Number:

700794.216.01

Project Location:

EDDY CO.

Sampling Date:

03/13/2017

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S- 11 5' (H700666-50)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2017	ND	1.97	98.6	2.00	1.14	
Toluene*	<0.050	0.050	03/15/2017	ND	1.84	91.9	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/15/2017	ND	1.83	91.5	2.00	1.59	
Total Xylenes*	<0.150	0.150	03/15/2017	ND	5,22	86.9	6,00	1.74	
Total BTEX	<0.300	0.300	03/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	03/15/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2017	ND	221	111	200	1,31	
DRO >C10-C28	<10.0	10.0	03/15/2017	ND	234	117	200	2.19	
Surrogate: 1-Chlorooctane	108 %	6 25.1-158	3						
Surrogate: 1-Chlorooctadecane	116%	3 26.8-170)						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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

Cardinal Laboratories

*=Accredited Analyte

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

Celeg & Kerne



Fage 1 0 5 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE city: Artesia Project Manager: 大 Project Location: Project # 700794.216. Phone # 575-746-8768 lddress: 408 W. Texas Ave. roject Name: H 780 lelale Sampler Name: FOR LAB USE ONLY Lab I.D. Sampier - UPS -101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 () | Bas - Other: (Circle One) p Sample I.D. **Ö**FMB O[Project Owner: Devor SY # Fax # 575-746-8905 State: NM Zip: 88210 Vilson INIR SORTE 12,22 (ramp) (G)RAB OR (C)OMP. Shark. GROUNDWATER WASTEWATER SOIL OIL SLUDGE P,O. 供 City: Attn: Company: State: Address: Fax典 Phone 芸 OTHER: ACID/BASE: ICE /.COOL Talon/LPE OTHER: Ä اق ا TIME lorides ř ANALYSIS REQUEST



Tage 2 0 5 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Oratories . .

	~ `1	Sampler - UPS - Bus - Other
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2	O/Project Owner: Devon City:	6.0
	1-1	-746-8768
	State: NIM Zip: 88210 Attn:	ľ
	Company: alon/LFE	<
	Wilson P.O.#	Ξ,
		Company Name: Talon/LPE
ANALYSIS REQUEST		(575) 393-2326 FAX (575) 393-2476
	bbs, NM 88240	101 East Mariand, Hobbs, NM 88240



Tage 3 % 5 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tajon/LPE Project Manager: K. Tobak Address: 408 W. Texas Ave Phones: 575-746-8768 city: Artesia Project # 700 Project Location: FOR USE USE ONLY ampler Name: かとら Lab I.D. Sampler - UPS - Bus - Other: Swall True 101 East Mariand, Hobbs, NIM 88240 (575) 393-2326 FAX (575) 393-2476 から (Circle One) 794,216. Of Project Owner. Devor Sample LD, Ó ō Fax # 575-746-8905 Dilson State: NIM Zip: 88210 Date: 3/14/17 Received By: Times 121,25 * (G)RAB OR (C)OMP. CONTAINERS WASTEWATER OIL. SLUDGE P,O. #: Ath: City: Company: Stafe: Address: Phone # OTHER: ACID/BASE: ICE/COOL OTHER: Talon/LPE Zi Si SAMPL TIME 11 Yes ANALYSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST age 4 es 5

Company Name: Talon/LPE Project Manager: X: Tobar by Project * 700794,216. Ol Project Owner: Devon city: Artesia ddress: 408 W. Texas Ave roject Location: FOR LAB LISE ONLY ampier Name: Lab I.D. 光的 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Ó, るを Fax \$ 575-746-8905 State: NM Zp: 88210 (G)RAB OR (C)OMP. DODODO # CONTAINERS WASTEWATER SOIL OIL SLUDGE P,O. & State: Sis: Atti Company: Address: Phone #: OTHER: TioX 特 ACID/BASE: ICE /.COOL OTHER: Talon/LPE ΖĮρ SAMPLING among pair by the client forthe so days after completion of the applicable so days after completion of the applicable resumed by daint, is actualization, a stated measure or otherwise.

Physics Result:

REMARKS: ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

(Cifcle One)

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A Kecewed By:

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Tage 5 of 5 Chain-of-custody and analysis request

Project Manager: Kimberty Company Name: Tajon/LPE Phone # 575-746-8768 city: Artesia Projects 700794.216、0[Project Owner: Devon ddress: 408 W. Texas Ave Sampler - UPS - Bus - Other: 101 East Mariand, Hobbs, NIM 88240 (575) 393-2326 FAX (575) 393-2476 Circle One) 0 Sample LD, Fax # 575-746-8905 State: NM Zip: 88210 Times | 2 /25 | DO CHO)RABOR (C)OMP. #CONTAINERS GROUNDWATER WASTEWATER SOIL OIL. SLUDGE P,O, ∰ State: City Attn: Phone # Address: Company: 下以非 OTHER: ACID/BASE: CE/COOL OTHER: Talon/LPE Σď SAMPLING No No ANALYSIS REQUEST



March 20, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 36 WATERLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/16/17 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

03/16/2017

Reported:

03/20/2017

Project Name:

TODD 36 WATERLINE

Project Number:

700794,216.01

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

03/16/2017

Sample Received By:

Tamara Oldaker

Project Location:

Analyte

Analyte

Analyte

Analyte

EDDY CO.

Sample ID: BH - 1 6' (H700699-01)

Chloride, SM4500CI-B

mg/kg

Analyzed

03/20/2017

Analyzed

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

272

Result

16.0

Reporting Limit

Reporting Limit

432

BS

108

400

3.77

Sample ID: BH - 1 8' (H700699-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

· True Value QC

RPD

3,77

Qualifier

Chloride

Chloride

Chloride

Result 64,0

16.0 03/20/2017 Method Blank ND

ND

BS 432

108

400

Sample ID: BH - 1 10' (H700699-03)

Chloride, SM4500Cl-B

mg/kg

mg/kg

Result

Result

32.0

Analyzed By: AC

Analyzed By: AC

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Sample ID: BH - 1 15' (H700699-04)

80.0

16.0

Reporting Limit

Reporting Limit

16.0

03/20/2017

Analyzed

ND

432

108

400

3.77

Chloride, SM4500Cl-B

Analyzed 03/20/2017

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 3.77

Qualifier

Cardinal Laboratories

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Celeg D. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



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

Fax To:

(575) 745-8905

Received: Reported: 03/16/2017

03/20/2017

TODD 36 WATERLINE

Project Name: Project Number: Project Location:

700794.216.01

EDDY CO.

Sampling Date:

03/16/2017

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: BH - 1 20' (H700699-05)

Chloride, SM45UUCI-B	mg	/ Kg	Anaiyze	а ву: АС	-	Q#4_000000000000000000000000000000000000			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2017	ND	432	108	400	3.77	
Sample ID: BH - 1 25' (H70	00699-06)								

Chlorida CM4E00CLD

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2017	ND	432	108	400	3.77	

Sample ID: BH - 1 30' (H700699-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/20/2017	ND	432	108	400	3.77	

Cardinal Laboratories

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Celey D. Kenne



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Address: 408 W. Texas Ave. Company: Talon/LPE City: Artesia State: NM Zip: 88210 Attn:	G)RAB (CONTAGE CONTAGE	3/	1-0			-120	75		PLEASE NOTE: Lastiny and Damagne. Candmath liability and clearth enchance remody for any claim arising whether based in contract or bot, shall be limited to the amount paid by the client for the	Fax Result Yes No	Relinquished By: Date: 3/16/17 Re	N. Texas Ave. 746-8768 7744-8768 Sample I.I. 134-16 134-15 134-1	CONTAINERS ROUNDWATER ASTEWATER DIL LUDGE THER: PRESERV PRESERV THER: PRESERV THER: PRESERV THER: PRESERV THER: THER: PRESERV	hlorides
State: INIVI cip: 002 10	City: City	TOPIC CONTAINERS GRAB OR (C)OMP. GORAB OR (C)OMP. GONTAINERS GROUNDWATER VASTEWATER GOIL DITHER: GCE / COOL OTHER: TIME	nple I.D. City: C	mple I.D. City: Container: City:	mple I.D. City: C	mple I.D. City: C	mple I.D. City: City: City: State: Zip:	mple I.D. City: C	mple I.D. City: C	TIME Compared to the production of the produc	Project Name: Told 34 Valtac Links Project Location: Sampler Name: 5, Hitch 1906 FOR US USE ONLY FOR US	71		
Fax #: 575-746-8905	State: Zip: pcation: Ame: 5,	D. Sample I.D. State: Zip: Phone #: Part: Part: Part: Phone #: Part: Pa	State: Zip: State: Zip: S	State: Zip: State: Zip: S	State: Zip: State: Zip: S	D. Sample I.D. State: Zip: Phone #: Pax #: Pax #: Phone #: Pax #: Phone #: Pax	D. Sample I.D. State: Zip: Phone #: Phone #: Pax #: Pax #: Pax #: Phone #: Pax #: Phone #: Pax #: Phone #: Pax #: Pax #: Pax #: Phone #: Pax #: Phone #: Pax #: Phone #: Phone #: Pax #: Phone #: Pax #: Phone #: Phone #: Pax #: Pax #: Pax #: Phone #: Pax #: Phone #: Pax #: Pax #: Pax #: Phone #: Pax #: P	State: Zip: Phone #: Fax #	Ame: Told 3/ Valtor Land lame: 5, Hitch 20/0 lame: 6, Hitch 20/0 lame: 7, Hitch 20/0 lame	Inc. Sample I.D. Sample I.D. RATEUX PRESERV SAMPLING ONLY D. Sample III. Sample I.D. RATEUX PRESERV SAMPLING ONLY D. Sample I.D. RATEUX PRESERV SAMPLING ON	Project Name: Told 36 Valtor Line Project Location: Sampler Name: 5. Hitch 1906 FOR US USE ONLY PARTIES ONLY Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. PROSE USE ONLY Sample I.D. Sample	6.0	Dellon	
746-8768 Fax #: 575-746-8905	Phone #: Oh. 190 (2) Pressery, Sampling WATER WATER SE:: OL	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER: DATE TIME	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: 3/14/17 2.20	Phone #: Groundwater Wastewater Soil Oil Sludge Other: Acid/Base: Ice / Cool Other: 3/1/4/7 2.20	Ample I.D. Columbia	Phone #: Charle Charle Charles Charle	Phone #: Ch 2 C C	Phone #: Charles Charles Preserv Sampling	Phone #: Phone #: Pressery Sampling Phone #: Pressery Sampling Pr	Sample I.D. MATRIX PRESERVI SAMPLING PRESE	Sampler Name: 5, #i+Ch. 190 (2) Sampler Name: 5, #i+Ch. 190 (2) FOR UAB USE ONLY FOR UAB USE ONLY A BH-16 BH-16 BH-16 BH-17 BH-	ame: 70/1/3/	State:	
Fax #: 575-746-8905 (4, A) Project Owner: (79) City: (79) State:	Sample D.	Sample I.D. Sample I.D. Sample I.D. WATRIX PRESERV. SAMPLING BOUNDWATER WASTEWATER SOIL DIL DIL DIL DIL DIL DIL DIL DIL DIL D	Sample I.D. Sample I.D. Sample I.D. WATELY GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: 3/ 4/17 2.28	Sample I.D. Sampl	Sample I.D. PRESERV. SAMPLING OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: 3/ 4/17 2 20 7.1.20	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sample I.D. OR INTEX PRESERV SAMPLING ANTICK ANTICK ANTICK PRESERV ANTICK ANTICK PRESERV ANTICK ANTICK PRESERV ANTICK A	Sampler Name: 5, Hitch 19010 FOR US USE ONLY Lab I.D. Sample I.D. Sample I.D. PLASE NOTE: Lability and Damages: Cauthan's lability and darits evaluates namely for any claim sampless. All claims including those for repilipance and any other cause whatcomes at all to demand sanches. In the sevent shall cauthan to sevent shall cauthan the state of the period contacts and shallows a rectain problem.	4		<u>''</u>
Fax \$: 575-746-8905 Address: (\(\ell_{\sigma}\) \rightarrowner: \(\ell_{\sigma}\) \rightarrow (7914) City: (\(\ell_{\sigma}\) \rightarrow (1.7) \rightar	DR (C)OMP. MATRIX PRESERV. SAMPLING WATER VATER OL SE: OL	G)RAB OR (C)OMP. I CONTAINERS GROUNDWATER WASTEWATER GOIL DIL SLUDGE DTHER: ACID/BASE: CE/COOL DTHER: DATE TIME	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampling Samp	Sample I.D. Sampl	Sample I.D. OR RESERV. SAMPLING OR RESERV. SAMPLI	Lab I.D. Sample I.D. P. Sample I.D. Sample I.D. P. Sample	V	Fax #:	10
Fax \$: 575-746-8905 (\(\ell_{\clip}\)\) \(Project \text{Owner:}\) \(Pri/\gamma_{\clip}\) City: (\(\ell_{\clip}\)\) \(Prival_{\clip}\) State: Zip: (\(\ell_{\clip}\)\) Phone \$\psi: (\(\ell_{\clip}\)\) Fax \$\psi:	DR (C)OMP. MINERS DWATER VATER VATER OL	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER NASTEWATER SOIL DIL DIL DILESLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: 3/1/4/7/2008	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl	Sample I.D. Sampl		Lab I.D. Sample I.D. OM OM OM OM OM OM OM OM OM O	1	PRESERV.	
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



Analytical Report 673399

for

Talon LPE-Artesia

Project Manager: R Pons

Todd 36 Waterline 2RP-4150 09.28.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



09.28.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 673399

Todd 36 Waterline

Project Address: Eddy County, New Mexico

R Pons:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673399. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673399 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 673399

Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-2, 0-1'	S	09.18.2020 10:00		673399-001
S-2, 2'	S	09.18.2020 10:05		673399-002
S-2, 3'	S	09.18.2020 10:10		673399-003
S-2, 4'	S	09.18.2020 10:15		673399-004
S-2, 6'	S	09.18.2020 10:25		673399-005
S-2, 8'	S	09.18.2020 10:30		673399-006
S-2, 10'	S	09.18.2020 10:35		673399-007
S-2, 12'	S	09.18.2020 10:45		673399-008
S-3, 0-1'	S	09.18.2020 11:00		673399-009
S-3, 2'	S	09.18.2020 11:05		673399-010
S-3, 3'	S	09.18.2020 11:10		673399-011
S-3, 4'	S	09.18.2020 11:15		673399-012
S-3, 6'	S	09.18.2020 11:25		673399-013
S-3, 8'	S	09.18.2020 11:30		673399-014
S-3, 10'	S	09.18.2020 11:40		673399-015
S-3, 12'	S	09.18.2020 11:45		673399-016
S-6, 0-1'	S	09.18.2020 12:05		673399-017
S-6, 2'	S	09.18.2020 12:10		673399-018
S-6, 3'	S	09.18.2020 12:20		673399-019
S-6, 4'	S	09.18.2020 12:25		673399-020
S-6, 6'	S	09.18.2020 12:35		673399-021
S-6, 8'	S	09.18.2020 12:40		673399-022
S-6, 10'	S	09.18.2020 12:50		673399-023
S-6, 12'	S	09.18.2020 12:55		673399-024
S-7, 0-1'	S	09.18.2020 13:10		673399-025
S-7, 2'	S	09.18.2020 13:15		673399-026
S-7, 3'	S	09.18.2020 13:20		673399-027
S-7, 4'	S	09.18.2020 13:25		673399-028
S-7, 6'	S	09.18.2020 13:40		673399-029
S-7, 8'	S	09.18.2020 13:45		673399-030
S-11, 0-1'	S	09.18.2020 14:00		673399-031
S-11, 2'	S	09.18.2020 14:05		673399-032
S-11, 3'	S	09.18.2020 14:10		673399-033
S-11, 4'	S	09.18.2020 14:20		673399-034
S-11, 6'	S	09.18.2020 14:25		673399-035
S-11, 8'	S	09.18.2020 14:45		673399-036
S-11, 10'	S	09.18.2020 14:50		673399-037
S-11, 12'	S	09.18.2020 15:00		673399-038

Environment Testing

CASE NARRATIVE

Client Name: Talon LPE-Artesia Project Name: Todd 36 Waterline

 Project ID:
 2RP-4150
 Report Date:
 09.28.2020

 Work Order Number(s):
 673399
 Date Received:
 09.23.2020

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

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins

Xenco



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 0-1' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-001 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist:

Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

CAS Analysis **Dil Factor** SDL **Parameter** Result MQL Units Number Date Chloride 10.9 0.350 09.24.2020 15:08 16887-00-6 9.90 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138023 Date Prep: 09.24.2020 11:00

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	09.24.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	09.24.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	09.24.2020 17:12	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 17:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000485	0.00200	0.000485	mg/kg	09.25.2020 18:05	U	1
Toluene	108-88-3	< 0.000527	0.00200	0.000527	mg/kg	09.25.2020 18:05	U	1
Ethylbenzene	100-41-4	< 0.000405	0.00200	0.000405	mg/kg	09.25.2020 18:05	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	09.25.2020 18:05	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	09.25.2020 18:05	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	09.25.2020 18:05	U	
Total BTEX		< 0.000402		0.000402	mg/kg	09.25.2020 18:05	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		102		70 - 130	%			
4-Bromofluorobenzene		97		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 2' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-002 Date Collected: 09.18.2020 10:05 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moist: Analyst: MAB

Tech:

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

MAB

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	89.4	9.92	0.351	mg/kg	09.24.2020 15:24		1

Analytical Method: TPH by SW8015 Mod

Prep Method: 8015

% Moist: Analyst: DTH

DTH Tech:

Date Prep: 09.24.2020 11:00 Seq Number: 3138023

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	09.24.2020 17:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	09.24.2020 17:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	09.24.2020 17:33	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 17:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	121	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

% Moist: Analyst: MAB Tech: MAB

Date Prep: 09.25.2020 09:03 Seq Number: 3138185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000482	0.00198	0.000482	mg/kg	09.25.2020 18:17	U	1
Toluene	108-88-3	< 0.000524	0.00198	0.000524	mg/kg	09.25.2020 18:17	U	1
Ethylbenzene	100-41-4	< 0.000403	0.00198	0.000403	mg/kg	09.25.2020 18:17	U	1
m,p-Xylenes	179601-23-1	< 0.000748	0.00397	0.000748	mg/kg	09.25.2020 18:17	U	1
o-Xylene	95-47-6	< 0.000400	0.00198	0.000400	mg/kg	09.25.2020 18:17	U	1
Total Xylenes	1330-20-7	< 0.000400		0.000400	mg/kg	09.25.2020 18:17	U	
Total BTEX		<0.000400		0.000400	mg/kg	09.25.2020 18:17	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		91		70 - 130	%			
4-Bromofluorobenzene		91		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 3' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-003 Date Collected: 09.18.2020 10:10 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist:

Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	149	9.94	0.352	mg/kg	09.24.2020 15:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138023 Date Prep: 09.24.2020 11:00

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.1	13.9	mg/kg	09.24.2020 17:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.1	11.5	mg/kg	09.24.2020 17:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.1	11.5	mg/kg	09.24.2020 17:53	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 17:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000488	0.00201	0.000488	mg/kg	09.25.2020 18:39	U	1
Toluene	108-88-3	< 0.000531	0.00201	0.000531	mg/kg	09.25.2020 18:39	U	1
Ethylbenzene	100-41-4	< 0.000409	0.00201	0.000409	mg/kg	09.25.2020 18:39	U	1
m,p-Xylenes	179601-23-1	< 0.000758	0.00402	0.000758	mg/kg	09.25.2020 18:39	U	1
o-Xylene	95-47-6	< 0.000406	0.00201	0.000406	mg/kg	09.25.2020 18:39	U	1
Total Xylenes	1330-20-7	< 0.000406		0.000406	mg/kg	09.25.2020 18:39	U	
Total BTEX		<0.000406		0.000406	mg/kg	09.25.2020 18:39	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		103		70 - 130	%			
4-Bromofluorobenzene		94		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 4' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-004 Date Collected: 09.18.2020 10:15 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist:

Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	634	9.98	0.353	mg/kg	09.24.2020 15:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138023 Date Prep: 09.24.2020 11:00

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	09.24.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	09.24.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	09.24.2020 18:13	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 18:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	122	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000489	0.00202	0.000489	mg/kg	09.25.2020 19:02	U	1
Toluene	108-88-3	< 0.000532	0.00202	0.000532	mg/kg	09.25.2020 19:02	U	1
Ethylbenzene	100-41-4	< 0.000409	0.00202	0.000409	mg/kg	09.25.2020 19:02	U	1
m,p-Xylenes	179601-23-1	< 0.000760	0.00403	0.000760	mg/kg	09.25.2020 19:02	U	1
o-Xylene	95-47-6	< 0.000406	0.00202	0.000406	mg/kg	09.25.2020 19:02	U	1
Total Xylenes	1330-20-7	< 0.000406		0.000406	mg/kg	09.25.2020 19:02	U	
Total BTEX		<0.000406		0.000406	mg/kg	09.25.2020 19:02	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		102		70 - 130	%			
4-Bromofluorobenzene		94		70 - 130	%			



Seq Number: 3138099

Analyst:

Certificate of Analytical Results 673399

Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 6' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-005 Date Collected: 09.18.2020 10:25 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

DTH

Prep Method: E300P

MAB

8015

DTH

Tech:

Analyst: MAB % Moist: Tech:

Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	2800	49.7	1.76	mg/kg	09.24.2020 15:40		5

Analytical Method: TPH by SW8015 Mod Prep Method: % Moist:

Date Prep: 09.24.2020 11:00 Seq Number: 3138023

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	09.24.2020 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	09.24.2020 18:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	09.24.2020 18:33	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 18:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

% Moist: Analyst: MAB Tech: MAB

Date Prep: 09.25.2020 09:03 Seq Number: 3138185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000485	0.00200	0.000485	mg/kg	09.25.2020 19:24	U	1
Toluene	108-88-3	< 0.000527	0.00200	0.000527	mg/kg	09.25.2020 19:24	U	1
Ethylbenzene	100-41-4	< 0.000405	0.00200	0.000405	mg/kg	09.25.2020 19:24	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	09.25.2020 19:24	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	09.25.2020 19:24	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	09.25.2020 19:24	U	
Total BTEX		< 0.000402		0.000402	mg/kg	09.25.2020 19:24	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		92		70 - 130	%			
4-Bromofluorobenzene		98		70 - 130	%			



Seq Number: 3138099

Certificate of Analytical Results 673399

Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 8' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-006 Date Received: 09.18.2020 10:30 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

8015

Tech:

Analyst: MAB % Moist:

Date Prep: 09.24.2020 13:22

Prep seq: 7712039

CAS Analysis **Dil Factor** SDL **Parameter** Result MQL Units Number Date Chloride 6000 1.77 09.24.2020 15:57 5 16887-00-6 49.9 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method:

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138023 Date Prep: 09.24.2020 11:00

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	09.24.2020 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	09.24.2020 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	09.24.2020 18:53	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 18:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000483	0.00199	0.000483	mg/kg	09.25.2020 19:47	U	1
Toluene	108-88-3	< 0.000525	0.00199	0.000525	mg/kg	09.25.2020 19:47	U	1
Ethylbenzene	100-41-4	< 0.000404	0.00199	0.000404	mg/kg	09.25.2020 19:47	U	1
m,p-Xylenes	179601-23-1	< 0.000749	0.00398	0.000749	mg/kg	09.25.2020 19:47	U	1
o-Xylene	95-47-6	< 0.000401	0.00199	0.000401	mg/kg	09.25.2020 19:47	U	1
Total Xylenes	1330-20-7	< 0.000401		0.000401	mg/kg	09.25.2020 19:47	U	
Total BTEX		<0.000401		0.000401	mg/kg	09.25.2020 19:47	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		102		70 - 130	%			
4-Bromofluorobenzene		92		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 10' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-007 Date Collected: 09.18.2020 10:35 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	7560	50.1	1.77	mg/kg	09.24.2020 16:02		

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138023 Date Prep: 09.24.2020 11:00

Prep seq: 7712008

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	09.24.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	09.24.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	09.24.2020 19:13	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 19:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000485	0.00200	0.000485	mg/kg	09.25.2020 20:09	U	1
Toluene	108-88-3	< 0.000527	0.00200	0.000527	mg/kg	09.25.2020 20:09	U	1
Ethylbenzene	100-41-4	< 0.000405	0.00200	0.000405	mg/kg	09.25.2020 20:09	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	09.25.2020 20:09	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	09.25.2020 20:09	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	09.25.2020 20:09	U	
Total BTEX		<0.000402		0.000402	mg/kg	09.25.2020 20:09	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		101		70 - 130	%			
4-Bromofluorobenzene		95		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-2, 12' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-008 Date Collected: 09.18.2020 10:45 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

Tech:

Analyst: MAB % Moist:

Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	7680	50.1	1.77	mg/kg	09.24.2020 16:08		5

Analytical Method: TPH by SW8015 Mod

Prep Method: 8015

Analyst: DTH % Moist:

Tech: DTH

Seq Number: 3138100

Seq Number: 3138099

Prep seq: 7712024

CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
PHC610	<13.9	50.1	13.9	mg/kg	09.24.2020 16:52	U	1
C10C28DRO	<11.5	50.1	11.5	mg/kg	09.24.2020 16:52	U	1
PHCG2835	<11.5	50.1	11.5	mg/kg	09.24.2020 16:52	U	1
PHC635	<11.5		11.5	mg/kg	09.24.2020 16:52	U	
	Number PHC610 C10C28DRO PHCG2835	Number Result PHC610 <13.9	Number Result MQL PHC610 <13.9	Number Result MQL SDL PHC610 <13.9	Number Result MQL SDL Units PHC610 <13.9	Number Result MQL SDL Units Date PHC610 <13.9	Number Result MQL SDL Units Date Flag PHC610 <13.9

Date Prep: 09.24.2020 11:30

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5035A

Tech:

Analyst: MAB

% Moist:

MAB

Seq Number: 3138185

4-Bromofluorobenzene

Date Prep: 09.25.2020 09:03

Prep seq: 7712103

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000482	0.00198	0.000482	mg/kg	09.25.2020 20:32	U	1
Toluene	108-88-3	< 0.000524	0.00198	0.000524	mg/kg	09.25.2020 20:32	U	1
Ethylbenzene	100-41-4	< 0.000403	0.00198	0.000403	mg/kg	09.25.2020 20:32	U	1
m,p-Xylenes	179601-23-1	< 0.000748	0.00397	0.000748	mg/kg	09.25.2020 20:32	U	1
o-Xylene	95-47-6	< 0.000400	0.00198	0.000400	mg/kg	09.25.2020 20:32	U	1
Total Xylenes	1330-20-7	< 0.000400		0.000400	mg/kg	09.25.2020 20:32	U	
Total BTEX		<0.000400		0.000400	mg/kg	09.25.2020 20:32	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	te	Flag
1,4-Difluorobenzene		102		70 - 130	%			

93

70 - 130



Seq Number: 3138099

Certificate of Analytical Results 673399

Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 0-1' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-009 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Prep Method:

8015

Analyst: MAB % Moist: Tech: MAB

Date Prep: 09.24.2020 13:22

Prep seq: 7712039

CAS Analysis **Dil Factor** SDL **Parameter** Result MQL Units Number Date Chloride 16887-00-6 16.9 9.92 0.351 09.24.2020 16:14 mg/kg

Analytical Method: TPH by SW8015 Mod

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138100 Date Prep: 09.24.2020 11:30

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	09.24.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	09.24.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	09.24.2020 17:12	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 17:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138185 Date Prep: 09.25.2020 09:03

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000482	0.00198	0.000482	mg/kg	09.25.2020 20:54	U	1
Toluene	108-88-3	< 0.000524	0.00198	0.000524	mg/kg	09.25.2020 20:54	U	1
Ethylbenzene	100-41-4	< 0.000403	0.00198	0.000403	mg/kg	09.25.2020 20:54	U	1
m,p-Xylenes	179601-23-1	< 0.000748	0.00397	0.000748	mg/kg	09.25.2020 20:54	U	1
o-Xylene	95-47-6	< 0.000400	0.00198	0.000400	mg/kg	09.25.2020 20:54	U	1
Total Xylenes	1330-20-7	< 0.000400		0.000400	mg/kg	09.25.2020 20:54	U	
Total BTEX		<0.000400		0.000400	mg/kg	09.25.2020 20:54	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		101		70 - 130	%			
4-Bromofluorobenzene		87		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 2' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-010 Date Collected: 09.18.2020 11:05 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist:

Tech:

MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	15.4	9.94	0.352	mg/kg	09.24.2020 16:19		1

Analytical Method: TPH by SW8015 Mod

Prep Method: 8015

Analyst: DTH % Moist:

Tech:

DTH

Seq Number: 3138100

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.2	13.9	mg/kg	09.24.2020 17:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	09.24.2020 17:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	09.24.2020 17:33	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 17:33	U	

Date Prep: 09.24.2020 11:30

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	122	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5035A

Analyst: MAB % Moist:

Tech: MAB

Seq Number: 3138186

1,4-Difluorobenzene

4-Bromofluorobenzene

Date Prep: 09.25.2020 14:39

Prep seq: 7712104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000488	0.00201	0.000488	mg/kg	09.25.2020 18:05	U	1
Toluene	108-88-3	< 0.000531	0.00201	0.000531	mg/kg	09.25.2020 18:05	U	1
Ethylbenzene	100-41-4	< 0.000409	0.00201	0.000409	mg/kg	09.25.2020 18:05	U	1
m,p-Xylenes	179601-23-1	< 0.000758	0.00402	0.000758	mg/kg	09.25.2020 18:05	U	1
o-Xylene	95-47-6	< 0.000406	0.00201	0.000406	mg/kg	09.25.2020 18:05	U	1
Total Xylenes	1330-20-7	< 0.000406		0.000406	mg/kg	09.25.2020 18:05	U	
Total BTEX		<0.000406		0.000406	mg/kg	09.25.2020 18:05	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	te	Flag

112

125

%

70 - 130

70 - 130



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 3' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-011 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

Analyst: MAB % Moist: Tech:

Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	63.7	9.92	0.351	mg/kg	09.24.2020 16:25		1

Analytical Method: TPH by SW8015 Mod

Prep Method: 8015

Analyst: DTH % Moist:

Tech: DTH

Seq Number: 3138100

Seq Number: 3138099

Date Prep: 09.24.2020 11:30 Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.1	13.9	mg/kg	09.24.2020 17:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.1	11.5	mg/kg	09.24.2020 17:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.1	11.5	mg/kg	09.24.2020 17:53	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 17:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5035A

MAB

Tech:

Analyst: MAB
Seq Number: 3138186

1,4-Difluorobenzene

4-Bromofluorobenzene

Date Prep: 09.25.2020 14:39

Prep seq: 7712104

% Moist:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000486	0.00200	0.000486	mg/kg	09.25.2020 18:28	U	1
Toluene	108-88-3	< 0.000529	0.00200	0.000529	mg/kg	09.25.2020 18:28	U	1
Ethylbenzene	100-41-4	< 0.000407	0.00200	0.000407	mg/kg	09.25.2020 18:28	U	1
m,p-Xylenes	179601-23-1	< 0.000755	0.00401	0.000755	mg/kg	09.25.2020 18:28	U	1
o-Xylene	95-47-6	< 0.000404	0.00200	0.000404	mg/kg	09.25.2020 18:28	U	1
Total Xylenes	1330-20-7	< 0.000404		0.000404	mg/kg	09.25.2020 18:28	U	
Total BTEX		<0.000404		0.000404	mg/kg	09.25.2020 18:28	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	te	Flag

100

116

%

70 - 130

70 - 130



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 4' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-012 Date Collected: 09.18.2020 11:15 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1280	49.7	1.76	mg/kg	09.24.2020 16:42		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138100 Date Prep: 09.24.2020 11:30

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	09.24.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.3	11.5	mg/kg	09.24.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.3	11.5	mg/kg	09.24.2020 18:13	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 18:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	120	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138186 Date Prep: 09.25.2020 14:39

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000482	0.00198	0.000482	mg/kg	09.25.2020 18:50	U	1
Toluene	108-88-3	< 0.000524	0.00198	0.000524	mg/kg	09.25.2020 18:50	U	1
Ethylbenzene	100-41-4	< 0.000403	0.00198	0.000403	mg/kg	09.25.2020 18:50	U	1
m,p-Xylenes	179601-23-1	< 0.000748	0.00397	0.000748	mg/kg	09.25.2020 18:50	U	1
o-Xylene	95-47-6	< 0.000400	0.00198	0.000400	mg/kg	09.25.2020 18:50	U	1
Total Xylenes	1330-20-7	< 0.000400		0.000400	mg/kg	09.25.2020 18:50	U	
Total BTEX		<0.000400		0.000400	mg/kg	09.25.2020 18:50	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		108		70 - 130	%			
4-Bromofluorobenzene		125		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 6' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-013 Date Collected: 09.18.2020 11:25 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	2060	49.5	1.75	mg/kg	09.24.2020 16:47		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138100 Date Prep: 09.24.2020 11:30

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	09.24.2020 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.3	11.5	mg/kg	09.24.2020 18:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.3	11.5	mg/kg	09.24.2020 18:33	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 18:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	120	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138186 Date Prep: 09.25.2020 14:39

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000485	0.00200	0.000485	mg/kg	09.25.2020 19:13	U	1
Toluene	108-88-3	< 0.000527	0.00200	0.000527	mg/kg	09.25.2020 19:13	U	1
Ethylbenzene	100-41-4	< 0.000405	0.00200	0.000405	mg/kg	09.25.2020 19:13	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	09.25.2020 19:13	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	09.25.2020 19:13	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	09.25.2020 19:13	U	
Total BTEX		< 0.000402		0.000402	mg/kg	09.25.2020 19:13	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		105		70 - 130	%			
4-Bromofluorobenzene		123		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 8' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-014 Date Collected: 09.18.2020 11:30 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

Analyst: MAB % Moist: Tech:

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1530	50.1	1.77	mg/kg	09.24.2020 17:04		5

Analytical Method: TPH by SW8015 Mod Prep Method: 8015
Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138100 Date Prep: 09.24.2020 11:30

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	09.24.2020 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	09.24.2020 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	09.24.2020 18:53	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	09.24.2020 18:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	120	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138186 Date Prep: 09.25.2020 14:39

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000485	0.00200	0.000485	mg/kg	09.25.2020 19:35	U	1
Toluene	108-88-3	< 0.000527	0.00200	0.000527	mg/kg	09.25.2020 19:35	U	1
Ethylbenzene	100-41-4	< 0.000405	0.00200	0.000405	mg/kg	09.25.2020 19:35	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	09.25.2020 19:35	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	09.25.2020 19:35	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	09.25.2020 19:35	U	
Total BTEX		< 0.000402		0.000402	mg/kg	09.25.2020 19:35	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		102		70 - 130	%			
4-Bromofluorobenzene		113		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 10' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-015 Date Collected: 09.18.2020 11:40 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst: MAB % Moist:

MAB

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

CAS Analysis **Dil Factor** SDL **Parameter** Result MQL Units Number Date Chloride 16887-00-6 5590 1.78 09.24.2020 17:10 5 50.2 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method: 8015 % Moist: Analyst: DTH Tech: DTH

Date Prep: 09.24.2020 11:30 Seq Number: 3138100

Prep seq: 7712024

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.1	13.9	mg/kg	09.24.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.1	11.5	mg/kg	09.24.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.1	11.5	mg/kg	09.24.2020 19:13	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.24.2020 19:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	127	70 - 135	%		
o-Terphenyl	120	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

% Moist: Analyst: MAB Tech: MAB

Date Prep: 09.25.2020 14:39 Seq Number: 3138186

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000489	0.00202	0.000489	mg/kg	09.25.2020 19:57	U	1
Toluene	108-88-3	< 0.000532	0.00202	0.000532	mg/kg	09.25.2020 19:57	U	1
Ethylbenzene	100-41-4	< 0.000409	0.00202	0.000409	mg/kg	09.25.2020 19:57	U	1
m,p-Xylenes	179601-23-1	< 0.000760	0.00403	0.000760	mg/kg	09.25.2020 19:57	U	1
o-Xylene	95-47-6	< 0.000406	0.00202	0.000406	mg/kg	09.25.2020 19:57	U	1
Total Xylenes	1330-20-7	< 0.000406		0.000406	mg/kg	09.25.2020 19:57	U	
Total BTEX		<0.000406		0.000406	mg/kg	09.25.2020 19:57	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		104		70 - 130	%			
4-Bromofluorobenzene		124		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Todd 36 Waterline

Sample Id: S-3, 12' Matrix: Soil Sample Depth:

Lab Sample Id: 673399-016 Date Collected: 09.18.2020 11:45 Date Received: 09.23.2020 15:05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MAB % Moist:

Tech: MAB

8015

Seq Number: 3138099 Date Prep: 09.24.2020 13:22

Prep seq: 7712039

CAS Analysis **Dil Factor** SDL Result **Parameter** MQL Units Number Date Chloride 16887-00-6 12.4 10.1 0.357 09.24.2020 17:15 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method:

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3138111 Date Prep: 09.24.2020 16:30

Prep seq: 7712043

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.0	50.3	14.0	mg/kg	09.25.2020 03:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.3	11.5	mg/kg	09.25.2020 03:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.3	11.5	mg/kg	09.25.2020 03:38	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	09.25.2020 03:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	127	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5035A

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3138186 Date Prep: 09.25.2020 14:39

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000489	0.00202	0.000489	mg/kg	09.25.2020 20:20	U	1
Toluene	108-88-3	< 0.000532	0.00202	0.000532	mg/kg	09.25.2020 20:20	U	1
Ethylbenzene	100-41-4	< 0.000409	0.00202	0.000409	mg/kg	09.25.2020 20:20	U	1
m,p-Xylenes	179601-23-1	< 0.000760	0.00403	0.000760	mg/kg	09.25.2020 20:20	U	1
o-Xylene	95-47-6	< 0.000406	0.00202	0.000406	mg/kg	09.25.2020 20:20	U	1
Total Xylenes	1330-20-7	< 0.000406		0.000406	mg/kg	09.25.2020 20:20	U	
Total BTEX		<0.000406		0.000406	mg/kg	09.25.2020 20:20	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1,4-Difluorobenzene		104		70 - 130	%			
4-Bromofluorobenzene		118		70 - 130	%			