



### **Site Assessment & Closure Report**

Caswell 23 Federal #1H & 3H Lea County, New Mexico API# 30-025-40708, 30-025-40709 1RP-5009

### **Prepared For:**

Devon Energy Production Company 6488 Seven Rivers Hwy Artesia NM 88210

### Prepared By:

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

June 11, 2020

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

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

Subject:

Site Assessment & Closure Report

Caswell 23 Federal #1H & 3H Lea County, New Mexico

API# 30-025-40708, 30-025-40709

1RP-5009

Dear Mr. Amos & Mr. Bratcher,

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

### Site Information

The Caswell 23 Federal #1H & 3H is located approximately forty (40) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter A, Section 23, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.826409 North and -103.728985 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino-Cacique association with 0 to 3 percent slopes. See Appendix II for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of eolian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well-drained.

### **Ground Water and Site Characterization**

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 130-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is not located within a high potential Karst area.

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

Approximate Depth to	Groundwater	130 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing wate any other significant watercourse	rcourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa	ı lake
∐Yes ⊠No	Within 300 feet from an occupied permanent res school, hospital, institution or church	idence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic well used by less than five households for domest watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spring Within incorporated municipal boundaries or with Municipal fresh water well field covered under a ordinance adopted pursuant to Section 3-2703 N	nin a defined municipal
	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year flood zone	

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

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

### **Incident Description**

On March 20, 2018, the heater treater pressurized, causing the fluids to exit through the vent line. The wells were shut in to prevent further release. Approximately 8 barrels (bbls) of oil were released, the spill area was measured to be 365' x 80' with an overspray onto the pasture adjacent to the well pad. No fluids were recovered. The initial C-141 is presented in Appendix III for this incident and was assigned 1RP-5009.

On March 13, 2020, the fire tube on the test heater developed a hole causing approximately 57.54 bbls of produced water to be released onto the well pad. All fluids remained on the pad and were mixed with rainwater. A vac truck was able to recover approximately 39 bbls. The initial C-141 is presented in Appendix III for this incident and has not been assigned an application number for reference as of date of this report. A site map referencing the two spill events is presented in Appendix I.

On April 2, 2020, Talon mobilized personnel to the site conducting a site assessment and collecting soil samples. Sample locations are shown on the attached site map, the results of our sampling event are presented in the following data table.

### Soil Sampling

4-2-20 Soil Sample Laboratory Results

Promise of	Sample	Depth	BTEX	Benzene	GRO	DRO DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3.3500.000	able 1 Closui 9.15.29 NMA	e Criteria	50 mg/kg	10 mg/kg	DRO + GRO	combined = mg/kg			20,000 mg/kg
S-1	4/2/2020	0	ND	ND	ND	93.7	38.4	132.1	2080
3-1	4/2/2020	1 R	ND	ND	ND	ND	ND	ND	208
		0	ND	ND	ND	ND	ND	ND	256
c	-2	1	ND	ND	ND	ND	ND	ND	64
3	-2	2	ND	ND	ND	ND	ND	ND	32
		3 R	ND	ND	ND	ND	ND	ND	48
		0	ND	ND	ND	268	208	476	144
S.	-3	1	ND	ND	ND	ND	ND	ND	64
		2 R	ND	ND	ND	ND	ND	ND	64
		0	ND	ND	ND	ND	ND	ND	64
S	-4	1	ND	ND	ND	ND	ND	ND	224
		2 R	ND	ND	ND	ND	ND	ND	48
		0	ND	ND	ND	ND	ND	ND	64
	_	1	ND	ND	ND	ND	ND	ND	96
) S	-5	2	ND	ND	ND	ND	ND	ND	64
		3R	ND	ND	ND	ND	ND	ND	144
		0	ND	ND	ND	ND	ND	ND	112
S.	S-6		ND	ND	ND	ND	ND	ND	112
		2 R	ND	ND	ND	ND	ND	ND	64
		0	ND	ND	ND	ND	ND	ND	96
S.	-7	1	ND	ND	ND	ND	ND	ND	64
		2 R	ND	ND	ND	ND	ND	ND	64
		0	ND	ND	ND	ND	ND	ND	112
S	-8	1	ND	ND	ND	ND	ND	ND	64
		2 R	ND	ND	ND	ND	ND	ND	80
		0	ND	ND	ND	ND	ND	ND	528
S	-9	1	ND	ND	ND	ND	ND	ND	96
		2 R	ND	ND	ND	ND	ND	ND	64
	10	0	ND	ND	ND	ND	ND	ND	17000
S-	10	1 R	ND	ND	ND	ND	ND	ND	528
		0	7.9	ND	216	5660	1230	7106	10200
S-	11	1	ND	ND	ND	ND	ND	ND	256
		2 R	ND	ND	ND	59.6	10.3	69.9	496
		0	ND	ND	ND	3150	983	4133	28600
S-	12	1	ND	ND	ND	ND	ND	ND	192
		2 R	ND	ND	ND	ND	ND	ND	304
		0	ND	ND	ND	54.5	22.8	77.3	22600
S-	13	1	ND	ND	ND	ND	ND	ND	2640
		2 R	ND	ND	ND	ND	ND	ND	960

### ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

4-20-20 Confirmation Soil Sample Laboratory Results

	20 20	0 01111111	0.000	on oun	IPIO ECIA	or areary	rtooun		
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure	Criteria 19.1!	5.29 NMAC	50 mg/kg	10 mg/kg	DRO + GRO 1000 i	combined = mg/kg		2500 mg/kg	20,000 mg/kg
N. Sidewall Composite	4/20/2020	1	ND	ND	ND	ND	ND	ND	1230
S. Sidewall-1 Comp	osite	1	ND	ND	ND	ND	ND	ND	1470
E. Sidewall-1 Comp	osite	1	ND	ND	ND	ND	ND	ND	1280
E. Sidewall-2 Comp	osite	1	ND	ND	ND	473	112	585	1150
W. Sidewall-1 Comp	oosite	1	ND	ND	ND	24.8	ND	24.8	1300
W. Sidewall-2 Comp	oosite	1	ND	ND	ND	ND	ND	ND	1040
S. Sidewall-2 Comp	S. Sidewall-2 Composite 1		ND	ND	ND	64	11.5	75.5	1760
S-13 A	S-13 A 1		ND	ND .	ND	ND	ND	ND	1170
S-12 A		1	ND	ND	ND	ND	ND	ND	400
S-11 A		1	ND	ND	ND	16.9	ND	16.9	800
S-10 A		1	ND	ND	ND	124	21.9	145.9	1150

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

### **Remedial Actions**

- Based upon the results of our sampling event, none of the analytical results exceeded the NMOCD clean-up criteria for the Caswell 23 Fed #1H, 1RP-5009 release. Therefore, there was no need for soil remediation activities for this incident.
- The area in the vicinity of S-11, S-12, and S-13 was excavated to a depth of 1-foot below ground surface (BGS). Laboratory analytical results from confirmation sidewall soil samples indicated that the TPH and Chloride concentrations were below NMOCD Closure Criteria 19.15.29.12 D NMAC (Appendix V).
- The excavated soil was transported to Lea Land, LLC, a NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- Final C-141 is attached in Appendix IV.

### Closure

Based on this site characterization, soil remediation and analytical results, we request that no further actions be required. We furthermore respectfully request that regulatory closure concerning the attached incidents be granted.

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

Respectfully submitted,

TALON/LPE

Digitally signed by Rebecca Pons DN: cn=Rebecca Pons, o=Talon LPE, ou=Artesia, email=Rpons@talonlpe.com, c=US Date: 2020.06.17 15:18:00 -06'00'

Rebecca Pons Project Manager David J. Distrily signed by David J. Adding. or Tallow Distributed J. Adding. Or Tallow Distributed

David J. Adkins
District Manager

Attachments:

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



# <u>APPENDIX I</u>

SITE MAP

**KARST MAP** 

**TOPO MAP** 

**LOCATION MAP** 





# **APPENDIX II**

## **GROUNDWATER DATA**

**SOIL SURVEY** 

**FEMA FLOOD ZONE** 



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

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

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

C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

DOD Marilan	0 - 1 -	POD Sub-	01		Q		0	Tues	Dna	V	٧	Distance	anthWallDar		ater
POD Number RA 11911 POD1	Code	BASIN	County LE	1				1WS		<b>X</b> 619192	3632296 👛	498	epthWellDep 35	invalerco	lumn
L 12974 POD1		L	LE	3	4	3	18	178	33E	621233	3632940	2270	140	130	10
RA 11957 POD1		RA	LE	3	4	1	19	178	33E	621177	3632200 🍩	2272	55		
RA 11936 POD1		RA	LE	1	4	1	19	178	33E	621246	3632321 🌑	2314	92		
RA 11937 POD1		RA	LE	1	4	1	19	17S	33E	621244	3632281 🌑	2319	95		
RA 11684 POD5		RA	LE	3	1	4	11	178	32E	618353	3635047 🌑	2384	275		
RA 11684 POD1		RA	LE	1	1	4	11	17S	32E	618216	3635124	2497	275		
L 02770 S2		L	LE	2	2	3	18	178	33E	621338	3633583*	2512	214	184	30
L 02770 S3		L	LE	2	2	3	18	17S	33E	621338	3633583*	2512	220	202	18
RA 11684 POD2		RA	LE	1	1	4	11	178	32E	618313	3635248	2589	275		
L 13047 POD1		L	LE				11	178	32E	618187	3635254*	2629	140		
RA 11684 POD3		RA	LE	3	3	1	11	178	32E	618262	3635371 🌑	2721	275		
RA 11684 POD4		RA	LE	1	3	2	11	17S	32E	618334	3635521 🌑	2849	275		

Average Depth to Water:

172 feet

Minimum Depth:

130 feet

Maximum Depth:

202 feet

Record Count:

UTMNAD83 Radius Search (In meters):

Easting (X): 618970.452

Northing (Y): 3632743.411

Radius: 3000

\*UTM location was derived from PLSS - see Help

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

3/19/20 9:59 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

### Lea County, New Mexico

Map Unit Description: Berino-Cacique association, hummocky--Lea County, New Mexico

### BH—Berino-Cacique association, hummocky

### **Map Unit Setting**

National map unit symbol: dmpg Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

### Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

### **Description of Berino**

### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary

rock

### Typical profile

A - 0 to 10 inches: fine sand

Btk - 10 to 60 inches: sandy clay loam

### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural 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 in profile: 40 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 8.5 inches)



### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

### **Description of Cacique**

### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Calcareous eolian deposits derived from

sedimentary rock

### Typical profile

A - 0 to 7 inches: fine sand

Bt - 7 to 28 inches: sandy clay loam
Bkm - 28 to 38 inches: cemented material

### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: High

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

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Low (about 3.6 inches)

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: Sandy (R042XC004NM)

Hydric soil rating: No

### Minor Components

### Kermit

Percent of map unit: 4 percent

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No

### Maljamar

Percent of map unit: 3 percent

Ecological site: Limy Upland 16-21" PZ (R077CY028TX)

Hydric soil rating: No

### **Palomas**

Percent of map unit: 2 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

### **Dune land**

Percent of map unit: 1 percent

Hydric soil rating: No

### **Data Source Information**

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

# National Flood Hazard Layer FIRMette



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



**Future Conditions 1% Annual** 0.2% Annual Chance Flood Hazard, Areas areas of less than one square mile Zone X of 1% annual chance flood with average depth less than one foot or with drainage

Area with Flood Risk due to Levee Zone D Levee. See Notes, Zonc X Area with Reduced Flood Risk due to

Chance Flood Hazard Zone X

OTHER AREAS GENERAL NO SCREEN Area of Minimal Flood Hazard Zono X Channel, Culvert, or Storm Sewer **Effective LOMRs** Area of Undetermined Flood Hazard Zone

STRUCTURES | 1111111 Levee, Dike, or Floodwall

B 20.2 Water Surface Elevation Cross Sections with 1% Annual Chance Base Flood Elevation Line (BFE) Coastal Transect

Profile Baseline Limit of Study **Coastal Transect Baseline** Jurisdiction Boundary Hydrographic Feature

FEATURES

OTHER

Digital Data Available

Unmapped No Digital Data Available

MAP PANELS

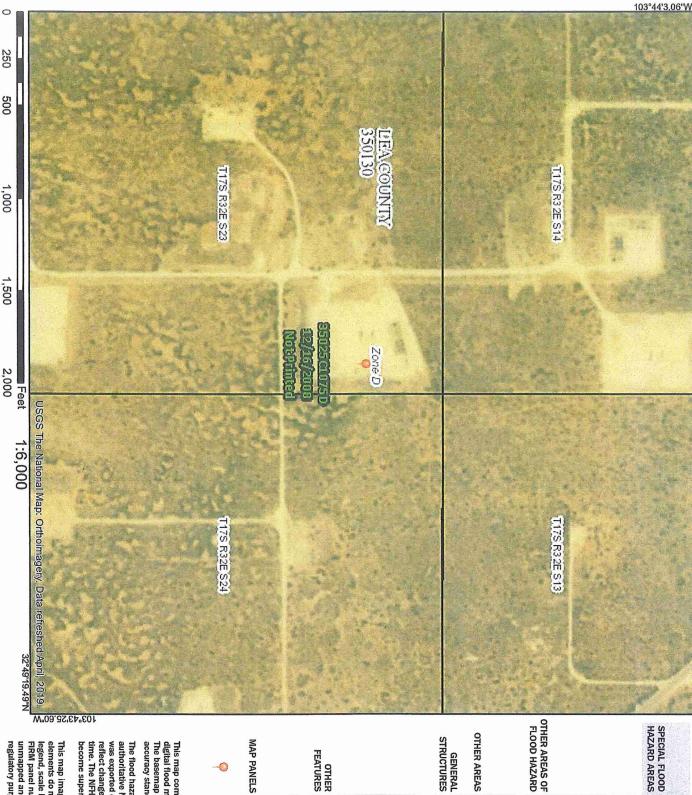
The pin displayed on the map is an approximate point selected by the user and does not represen an authoritative property location.

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

The flood hazard information is derived directly from the

accuracy standards

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 authoritative NFHL web services provided by FEMA. This map was exported on 3/19/2020 at 12:05:39 PM and does not become superseded by new data over time. time. The NFHL and effective information may change or reflect changes or amendments subsequent to this date and



1,000

1,500



# **APPENDIX III**

INITIAL C-141 & FINAL C-141 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2008045508
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible	Party Devo	n Energy Produc	ction Company		OGRID 6137			
Contact Nam				Contact Te	Contact Telephone 575-748-0176			
Contact ema	<sup>il</sup> amanda.	.davis@dvn.co	m	Incident #	(assigned by OCD)			
Contact mail	ing address	6488 Seven Ri	vers HWY	'				
			Location	of Release So				
Latitude 32	826409	9		Longitude	-103.728985			
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)			
Site Name Ca	aswell 23 l	Federal #3H		Site Type	Dil			
Date Release				API# (if app	licable) 30-025-40709			
Unit Letter	Section	Township	Range	Coun	<u>ity</u>			
Α	23	17S	32E	Lea	a			
Surface Owne	ıı. □ State	■ Federal □ Tu	ribal 🗌 Private ( <i>1</i>	Vama:	,			
our face Owne	i.   State	rederat 1	itual	vame	)			
			Nature and	l Volume of I	Release			
	Materia	I(s) Released (Select a	II that apply and attach	calculations or specific	justification for the volumes provided below)			
Crude Oi		Volume Release		carculations of specific	Volume Recovered (bbls)			
Produced	Water	Volume Release	ed (bbls) 57, 54		Volume Recovered (bbls) 39			
		Is the concentra	tion of total dissolv	ved solids (TDS)	Yes No			
Condensa	240	in the produced Volume Release	water >10,000 mg	:/1?	Volume Recovered (bbls)			
					` '			
Natural C		Volume Release			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)					Volume/Weight Recovered (provide units)			
Cours - fD 1	2000							
Cause of Release The fire tube on the test heater developed a hole causing fluid to be released onto the								
wellpad. All fluid remained on the pad and was mixed with rainwater.								

### State of New Mexico Oil Conservation Division

Incident ID	NRM2008045508
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon The amount of fluid released was							
Yes No								
An email was sent by	If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? An email was sent by Tom Bynum on 3/14/20 to the following: 'BLM Releases (blm_nm_cfo_spill@blm.gov)'; emnrd-ocd-district1spills@state.nm.us; 'rmann@slo.state.nm.us'; 'bboone@slo.state.nm.us'							
	Initial Re	sponse						
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury						
The source of the rele	ease has been stopped.							
The impacted area ha	as been secured to protect human health and t	he environment.						
Released materials ha	ave been contained via the use of berms or di	kes, absorbent pads, or other containment devices.						
All free liquids and re	ecoverable materials have been removed and	managed appropriately.						
If all the actions describe	d above have <u>not</u> been undertaken, explain w	vhy:						
This release was no	ot contained within a secondary co	ontainment, but all fluids did stay on the wellpad.						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,							
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence re	mediation immediately after discovery of a release. If remediation						
		fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.						
		est of my knowledge and understand that pursuant to OCD rules and						
		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have						
failed to adequately investig	gate and remediate contamination that pose a threa	at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws						
and/or regulations.	Ta C-141 report does not reneve the operator of r	esponsionity for comphance with any other rederal, state, or local laws						
Printed Name: Kendr		Title: EHS Associate						
Signature: <u>Kendra</u>	DeHoyos	Date:						
<sub>email:</sub> <u>kendra.de</u> h	noyos@dvn.com	Telephone: <u>575-748-3371</u>						
OCD Only								
Deceived by:		Date						

# State of New Mexico Oil Conservation Division

Incident ID	NRM2008045508
District RP	
Facility ID	30-025-4079
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following in	tems must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC						
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in						
Printed Name: <u>Rebecca Pons</u>	Title: Project Manager, Talon/LPE						
Digitally signed by Reduces Perus Dict conflicted a Pe	Date: <u>6/16/20</u>						
email: rpons@talonlpe.com	Telephone: <u>575.746.8768</u>						
OCD Only							
Received by: Cristina Eads	Date: 06/18/2020						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by: D E N I E D	Date: 08/26/2020						
Printed Name: Cristina Eads	Title: Environmental Specialist						

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

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in

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

Release Notification and Corrective Action							
	OPERATOR   Initial Report   Final Report						
Name of Company Devon Energy Production Company	Contact Hubert Perry						
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371						
Facility Name Caswell 23 Federal 1H	Facility Type Oil						
Surface Owner Federal Mineral Owner	Federal API No. 30-025-40708						
LOCATIO	ON OF RELEASE						
	h/South Line   Feet from the   East/West Line   County						
A 23 17S 32E	Lea						
	V 100 70000 NIA 700						
Latitude_32.82628_	NAD83						
W. WARELEN AND RESIDENCE	E OF RELEASE    Volume of Release 8 bbls   Volume Recovered None Recovered						
Type of Release Oil Source of Release Heater Treater	Date and Hour of Occurrence  Date and Hour of Discovery						
Source of Release Heater Treater	March 19, 2018 12:15 PM MST						
Was Immediate Notice Given?	If YES, To Whom?						
☐ Yes ☐ No ☐ Not Required	d NMOCD-Jim Griswold BLM-Terry Gregston and Shelly Tucker						
By Whom? Brett Fulks-EHS Professional	Date and Hour NMOCD-March 20, 2018 7:57 AM MST						
	BLM- March 20, 2018 8:12 AM MST						
-							
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.  N/A						
If a Watercourse was Impacted, Describe Fully.*  N/A	RECEIVED						
14/11	By Olivia Yu at 2:04 pm, Apr 03, 2018						
D 'I C CD II ID L'IA d'a Talan *							
Describe Cause of Problem and Remedial Action Taken.*  The Heater Treater pressurized causing the fluid to exit through the vent	t line. The wells were immediately shut in to prevent any further release.						
E SP							
Describe Area Affected and Cleanup Action Taken.*	ine. No fluids were recovered. The release originated from the Heater Treater that						
is located on the well pad. The approximate area affected by the release	e is 365'x 80' causing on overspray onto the pasture adjacent to the well pad. An						
environmental contractor will be contacted to assist with delineation and							
I hereby certify that the information given above is true and complete to	the best of my knowledge and understand that pursuant to NMOCD rules and						
regulations all operators are required to report and/or file certain release	notifications and perform corrective actions for releases which may endanger						
public health or the environment. The acceptance of a C-141 report by t	the NMOCD marked as "Final Report" does not relieve the operator of liability						
should their operations have failed to adequately investigate and remedi-	ate contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other						
federal, state, or local laws and/or regulations.	does not reneve the operator of responsionity for compliance with any other						
	OIL CONSERVATION DIVISION						
Signature: Jennífer Reyna	$\mathcal{A}$						
Signature. Jenninger 2wyrw	Approved by Environmental Specialist:						
Printed Name: Jennifer Reyna							
Title: Field Admin Support	Approval Date: 4/3/2018 Expiration Date:						
E-mail Address: Jennifer.Reyna@dvn.com	Conditions of Approval:						
	see attached directive						
Date: 4/2/2018 Phone: 575.746.5588  * Attach Additional Sheets If Necessary	The state of the s						

1RP-5009

nOY1809350940

pOY1809351198

# State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	1RP-5009
Facility ID	30-025-40708
Application ID	nOY1809350940

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

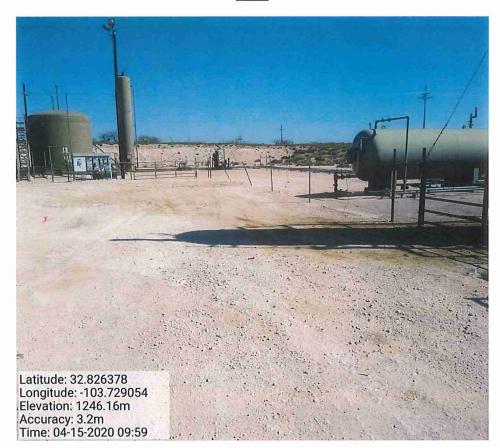
	of the remediated site prior to backfill or photos 2 days prior to liner inspection)	of the liner in	ntegrity if applicable (Note: appropriate OCD District office
🛚 Laboratory a	analyses of final sampling (Note: appropriate ODC	District offic	ce must be notified 2 days prior to final sampling)
□ Description •       □ Description •      □ Description •       □ Description •      □ Description •       □ Description •       □ Description •       □ Description •       □ Description •       □ Description	of remediation activities		
1 278 1840 0 1 2 2 2		STREET COLUMN	
and regulations all may endanger pub should their opera human health or the compliance with a restore, reclaim, a	I operators are required to report and/or file certain olic health or the environment. The acceptance of tions have failed to adequately investigate and rer the environment. In addition, OCD acceptance of any other federal, state, or local laws and/or regular	n release notificated as C-141 repointed as C-141 repointions. The renditions that conditions the conditions that conditions that conditions that conditions the conditions that conditions the conditions that conditions that conditions that conditions the conditions the conditions that conditions the conditions the conditions t	of my knowledge and understand that pursuant to OCD rules fications and perform corrective actions for releases which it by the OCD does not relieve the operator of liability mination that pose a threat to groundwater, surface water, it does not relieve the operator of responsibility for sponsible party acknowledges they must substantially existed prior to the release or their final land use in lamation and re-vegetation are complete.
Printed Name:	Rebecca Pons	Title:	Project Manager
Signature:	Digitally signed by Rebocca Ross  Okt cm-Rebocca Ross on Tolon LEF, cou-Antesia, enual-Ross (Ekkon)ce cm Colon LEF, cou-Antesia, enual-Ross (Ekkon)ce cm Colon  Date 2020 06 17 15:19 20 -0507	Date: 06	/11/20
email:	Rpons@talonlpe.com	Telephone:	575-441-0980
OCD Only			
		Date	:
and remediate co.	by the OCD does not relieve the responsible par ntamination that poses a threat to groundwater, s of compliance with any other federal, state, or loc	surface water	should their operations have failed to adequately investigate, human health, or the environment nor does not relieve the regulations.
Closure Approved	d by:	Da	nte:
Printed Name:		T	itle:



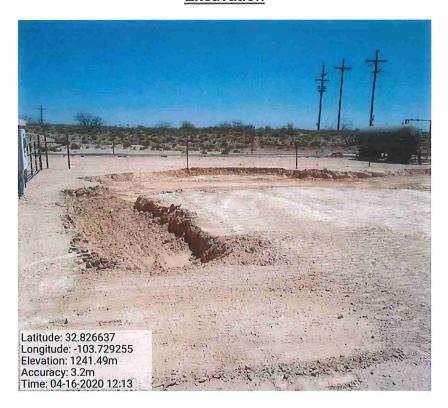
# **APPENDIX IV**

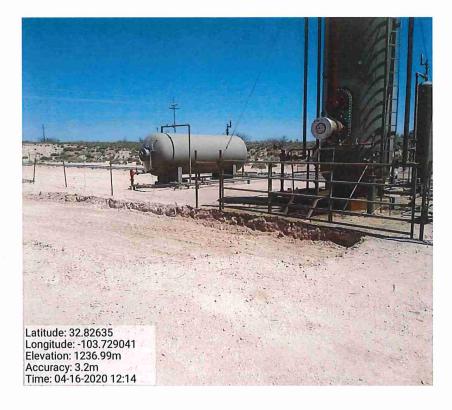
# PHOTOGRAPHIC DOCUMENTATION

### <u>Spill</u>

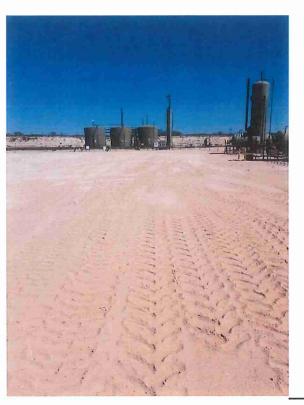


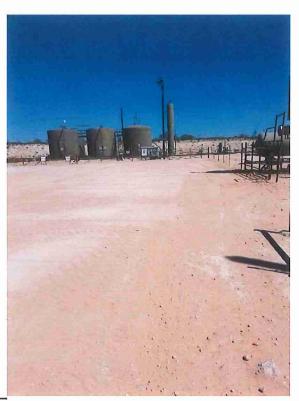
### **Excavation**





### Completed







# APPENDIX V

# **LABORATORY DATA**



April 08, 2020

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CASWELL 23 1H & 3H

Enclosed are the results of analyses for samples received by the laboratory on 04/06/20 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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. Keene

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 **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

04/06/2020

Reported:

04/08/2020

04/02/2020

Project Name:

CASWELL 23 1H & 3H

Soil

Project Number:

Sampling Condition:

Cool & Intact

700794.338.01

Sample Received By:

Sampling Date:

Sampling Type:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

### Sample ID: S- 1 0' (H001001-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS			- <u>-</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2020	ND	2.10	105	2.00	4.58	
Toluene*	<0.050	0.050	04/06/2020	ND	2.11	105	2.00	5.04	
Ethylbenzene*	<0.050	0.050	04/06/2020	ND	2.12	106	2.00	4.66	
Total Xylenes*	<0.150	0.150	04/06/2020	ND	6.18	103	6.00	4.84	
Total BTEX	<0.300	0.300	04/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 73.3-12	9					-	
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	193	96.4	200	4.15	
DRO >C10-C28*	93.7	10.0	04/07/2020	ND	190	95.1	200	8.28	
EXT DRO >C28-C36	38.4	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	95.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	98.5	% 42.2-15	6						

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\*=Accredited Analyte

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Celen & Kreene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 1 1'R (H001001-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			<del></del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	'4	-					
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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\*=Accredited Analyte

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Celeg to Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 45



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 2 0' (H001001-03)

DILAGOZIO	97	mg/ng /mm/2025/110							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	Analyzed By: GM			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	99.1	% 44.3-14	14			· · · · · · · · · · · · · · · · · · ·	-		
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 45



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

### Sample ID: S- 2 1' (H001001-04)

DIEX COLLD	97	··•		<del></del>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	,
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	93.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	98.2	% 42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 45



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

04/08/2020

Sampling Date: Sampling Type: 04/02/2020

Reported:

BTEX 8021B

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 2 2' (H001001-05)

DILX OUZZD	97								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	93.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	97.3	% 42.2-15	6						

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 45



### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 2 3' R (H001001-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					···
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0,050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9		9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	99.3	% 44.3-14	14			,			
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

BTEX 8021B

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 3 0' (H001001-07)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0,050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0,050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9		<u> </u>				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	268	10.0	04/07/2020	ND	185	92.4	200	2,96	
EXT DRO >C28-C36	208	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127 9	% 42.2-15	6						

Analyzed By: MS

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\*=Accredited Analyte

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### Analytical Results For:

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

Received:

04/06/2020

04/08/2020

Sampling Date: Sampling Type: 04/02/2020

Reported:

CASWELL 23 1H & 3H

Sampling Condition:

Soil

Project Name:

Cool & Intact

Project Number: Project Location:

700794.338.01 DEVON - LEA COUNTY, NM Sample Received By:

Tamara Oldaker

# Sample ID: S- 3 1' (H001001-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	. 2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	92.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.4	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 3 2' R (H001001-09)

	51			1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0,050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	94.1	% 44.3-14	14	-					
Surrogate: 1-Chlorooctadecane	99.4	% 42.2-15	6						

Analyzed By: MS

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 04/06/2020

04/08/2020

Sampling Date: Sampling Type: 04/02/2020

CASWELL 23 1H & 3H

Soil

Project Name:

700794.338.01

Sampling Condition:

Cool & Intact

Project Number: Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

Sample ID: S- 4 0' (H001001-10)

BTEX 8021B	mg/	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND <sup>-</sup>	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9				-		
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-14	14		,				-
Surrogate: 1-Chlorooctadecane	97.1	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 4 1' (H001001-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0,050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	73.3-12	9			-			-
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	96.8	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 4 2' R (H001001-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO > C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14	14				-		
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	56						

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### Analytical Results For:

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

Received: Reported: 04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Name: Project Number:

700794.338.01

Project Location:

DTEV 00310

DEVON - LEA COUNTY, NM

Sampling Date:

04/02/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 5 0' (H001001-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND				•	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10,0	04/07/2020	ND	185	92,4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	95.2	% 44.3-14	'4						
Surrogate: 1-Chlorooctadecane	99.4	% 42.2-15	6						

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### Analytical Results For:

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

04/06/2020

Reported: 04/08/2020

CASWELL 23 1H & 3H Project Name: Project Number: 700794.338.01

DEVON - LEA COUNTY, NM Project Location:

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

04/02/2020

Tamara Oldaker

Sample ID: S- 5 1' (H001001-14)

Received:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2,00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4,35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 :	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92,4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.9	% 42.2-15	6						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

04/02/2020

Received: Reported: 04/06/2020

Sampling Date: Sampling Type:

Soil

Project Name:

04/08/2020 CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 5 2' (H001001-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS	_	<sub>y</sub> .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0,050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0,300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			<u> </u>		_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10,0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	56						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/06/2020

04/08/2020

Sampling Date:

04/02/2020

Reported:

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

### Sample ID: S- 5 3' R (H001001-16)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0,050	04/07/2020	ND	2.04	102	2,00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6,00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.1	% 42.2-15	6						

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Celeg & Kreene



# Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Project Number:

700794.338.01

mg/kg

Cool & Intact

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 6 0' (H001001-17)

DIEY OUSTD	my/	NY .	Altaly2C	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0,050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND -	6.05	101	6.00	4,35	
Total BTEX	<0.300	0.300	04/07/2020	ND				_	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: I-Chlorooctane	93.8	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	94.8	% 42.2-15	i6						

Analyzed By: MS

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received: Reported:

DTEV OANID

04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Number: Project Location:

Project Name:

700794.338.01

DEVON - LEA COUNTY, NM

Sampling Date:

04/02/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 6 1' (H001001-18)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2,04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2,07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 73.3-12	9						
Chloride, SM4500Ci-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	96.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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Cardinal Laboratories

\*=Accredited Analyte

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

**DEVON - LEA COUNTY, NM** 

### Sample ID: S- 6 2' R (H001001-19)

DILX COLID	ilig/	Ng .	Andryze	a by, 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2,96	
EXT DRO > C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	96.3	% 44.3-14	4						-
Surrogate: 1-Chlorooctadecane	99.7	% 42.2-15	6						

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\*=Accredited Analyte

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Celly & Keene



### Analytical Results For:

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

Received: Reported: 04/06/2020

04/08/2020

**CASWELL 23 1H & 3H** 

Project Name: Project Number:

700794,338.01

Project Location:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

04/02/2020

Sample Received By:

Tamara Oldaker

Sample ID: S- 7 0' (H001001-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2,04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0,150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.3	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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# Analytical Results For:

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

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S-7 1' (H001001-21)

DICY SOSTD	my/	ky	Altalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.12	
Toluene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.78	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.05	101	6.00	4.35	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.3-12	9			-			
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
ТРН 8015М	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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2,96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	95.8	% 42,2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/06/2020

04/08/2020

Sampling Date:

04/02/2020

Reported:

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 7 2' R (H001001-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/07/2020	ND	2.06	103	2.00	0.100	
Toluene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	0.170	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	0.0233	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.95	99.2	6.00	0.128	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10,0	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate; 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.5	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received: Reported: 04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Name: Project Number:

700794.338.01

Project Location:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

04/02/2020

Tamara Oldaker

Sample ID: S- 8 0' (H001001-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.06	103	2.00	0.100	
Toluene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	0.170	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.07	103	2.00	0.0233	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5 <b>.</b> 95	99.2	6.00	0.128	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9		9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	193	96.7	200	0.131	
DRO >C10-C28*	<10.0	10,0	04/07/2020	ND	185	92.4	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	14	-					
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6		ı				

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received: Reported:

BTEX 8021B

04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Name: Project Number:

700794.338.01

mg/kg

Project Location:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/02/2020

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: S- 8 1' (H001001-24)

BIEN COLLED	11197	Ng .	ranaryze	a by i i i b					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	NĐ					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	91.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

Analyzed By: MS

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Celey D. Keene, Lab Director/Quality Manager

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# Analytical Results For:

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

- <del>- -</del>

04/06/2020

---- /Ica

Reported: 04/08/2020

Project Name: CASWELL 23 1H & 3H

Project Number: 700794.338.01

Project Location: DEVON - LEA COUNTY, NM

Sampling Date: 04/02/2020

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 8 2' R (H001001-25)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0,050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0,150	0.150	04/07/2020	ND	6.17	103	6.00	4,62	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/07/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/07/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/07/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.5	% 42.2-15	6						

Applymed By: MS

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# Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Project Location:

DEVON - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

### Sample ID: S- 9 0' (H001001-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0,150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	93.0	% 44.3-14	4			-			
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 9 1' (H001001-27)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	< 0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.5	% 42.2-15	6						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 9 2' R (H001001-28)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3,93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2,11	106	2.00	4,53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.3-14							
Surrogate: 1-Chlorooctadecane	98.4	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794,338,01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 10 0' (H001001-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0,300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 73.3-12	9	<u>.</u>			9		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.9	% 42,2-15	6						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 10 1' R (H001001-30)

DIEX GOZID	ıııg/	<u> </u>	711141720	a byr 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2,04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2020	ND	201	101	200	0,662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.5	% 42.2-15	6						

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### Analytical Results For:

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

Received: Reported: Project Name: 04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Number: Project Location: 700794,338,01

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

04/02/2020

Tamara Oldaker

Sample ID: S- 11 0' (H001001-31)

BTEX 8021B	mg/	'kg	Analyze	d By: MS		-			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	,101	2.00	3.42	
Toluene*	0.130	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	2.03	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	5.74	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	7.90	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	200 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	04/07/2020	ND	432	108	400	0.00	
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*	216	50.0	04/08/2020	ND	201	101	200	0,662	
DRO >C10-C28*	5660	50.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	1230	50.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	169 5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	236	% 42.2-15	6						

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\*=Accredited Analyte

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Celeg & Keene



# Analytical Results For:

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

Received: Reported: 04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Number: Project Location:

Project Name:

700794,338,01

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/02/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 11 1' (H001001-32)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO > C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	98.2	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 11 2' R (H001001-33)

BTEX 8021B	mg/	kg	Analyze	d By: MS	•••				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2,04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 73.3-12	19			-			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/07/2020	ND	432	108	400	0.00	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	59.6	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	10.3	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.3-14	14			_			-
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	56						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To:

(575) 745-8905

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 12 0' (H001001-34)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4,33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9		-				
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28600	16.0	04/07/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	3150	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	983	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	212 9	% 42.2-15	6						-

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

Received: Reported: 04/06/2020

04/08/2020

CASWELL 23 1H & 3H

700794.338,01

Project Number: Project Location:

Project Name:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/02/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 12 1' (H001001-35)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4,33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2,04	102	2.00	3,76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/07/2020	ND	416	104	400	3.77	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	90.9	% 44.3-14	4			-			_
Surrogate: 1-Chlorooctadecane	93.9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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# Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

700794.338.01

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 12 2' R (H001001-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS		-			<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/07/2020	ND	416	104	400	3.77	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	92.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	95.2	% 42.2-15	56						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S- 13 0' (H001001-37)

		9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4,33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2,00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	04/07/2020	ND	416	104	400	3.77	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	54.5	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	22.8	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						· ·
Surrogate: 1-Chlorooctadecane	98.3	% 42.2-15	6						

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### Analytical Results For:

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

Received: Reported:

Project Name:

04/06/2020

04/08/2020

CASWELL 23 1H & 3H

Project Number: Project Location: 700794.338.01

DEVON - LEA COUNTY, NM

Sampling Date:

04/02/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S- 13 1' (H001001-38)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3.83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9		-				
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	04/07/2020	ND	416	104	400	3.77	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO > C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	89.5	% 44.3-14	14				-		
Surrogate: 1-Chlorooctadecane	95.7	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/06/2020

Sampling Date:

04/02/2020

Reported:

BTEX 8021B

04/08/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA COUNTY, NM

### Sample ID: S- 13 2' R (H001001-39)

BTEN GOLLB	g/	Ng .	Analyze	a by 11-15		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.03	101	2.00	3.42	
Toluene*	<0.050	0.050	04/07/2020	ND	2.03	102	2.00	4.33	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.04	102	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	5.89	98.2	6.00	3,83	
Total BTEX	<0.300	0.300	04/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/07/2020	ND	416	104	400	3.77	
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	04/08/2020	ND	201	101	200	0.662	
DRO >C10-C28*	<10.0	10.0	04/08/2020	ND	200	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	04/08/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	<i>97.3</i> :	% 42.2-15	6						

Analyzed By: MS

# Cardinal Laboratories

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-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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Celey D. Keine

# CARDINAL

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4001001 Project Manager: C.JONES Company Name: TALON LPE roject Name: CASWELL 23 Lab I.D. ampler Name; roject Location: LEA County raject来 700 794. 338.01 ddress: 408 W. TEXAS AVE 5-20' 5-30' 5-22 MICHEC Sample LD OF LIER 1443H Face # Project Owner DEJON State; NR Zir: 88210 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: Phone 龄 State City: Tax es Address P.O. #: 700794.538.01 Company: THUON CPE ACID/BASE: C-JONES ICE/COOL OTHER: 4-2-20 4-2-20 Zip DATE 5:50 €,40€ 5: 20a 9:050 9:000 3:45 4:15am 4:30 9:25a TPH BTEX TOTAL CHLORIDES ANALYSIS REQUEST

y Cardinal cannot accept verbal changes. Please fax written changes to (576) 393-2326

·G

PG 1054

Sampler - UPS - Bus - Other:

Delivered **By**: (Circle One)

7345



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1001001 Sampler Name; Project Location: LEA COUNTY Phone 表 575- 631-6977 Project Manager; C. JONES Company Name: TALON LPE Lab LD Toject崇 700 794, 338,01 digess 408 W. TEXAS AVE S-50' 260 5-5 3'R 5-5 2 7-4 1 Sample I.D COLLIER 14434 Fax th Project Owner: DEVON State: NN 四年 88210 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: State: Phone & CHEV? Attn: C.JONES P.O. # 700794.838.01 Address ACID/BASE; ICE/COOL OTHER: 4-2-20 DATE 10:50 1825,01 10:45 10:354 10:05 10.30a 10.25 10:30 10:100 BTEX TOTAL CHLORIDES ANALYSIS REQUEST

ý Cardinal cannot accept verbal changes. Please tax written changes to (575) 893-2826

#113

Pr dost4

Delivered Wy: (Gircle One)
Sampler-UPS - Bus - Other:

i Cardinal cannot accept verbal changes. Please fax written changes to (676) 893-2326

## CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: CITY: HRTESIA Project Manager, C. JONES Configury Name: TALON LPE roject Name: CASWELL 23 FOR LAB USE ONLY القال المقا ampler Name; 10ne \* 575- 631-6977 idress: 408 W. TEXAS AVE ject崇 700 794.338.01 ject Location: LEA County S-8 1' 5-80 5-80 7 5-9 218 5911 (Circle One) 101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 しまれたに Sample [.D. COLLER MY34 Faxc亲: Project Owner: DEVON States NM Zip: 88210 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER 801 OIL SLUDGE OTHER: State City: Phone 供 Address Attn: C.JONES P.O. #: 700794.538.0 ACID/BASE; ICE/COOL OTHER: 4-2-20 i E DATE 11: 150 11:100 387 12:196~ 11,554 11:350 12:05 1: 504 11:25 11:300 34:11 PG 30=4 TIME TPH BTEX TOTAL CHLORIDES ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

f Cardinal cannof accept verbal changes. Please fax written changes to (676) 393-2326

Delivered By

(Gircle Che)

### CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Name: CASWELL 23 Projects: 700 794.338.01 CINT HRTESIA Project Manager: C. Jones 4001001 Company Names TALON LAE Sampler Name; roject Location: LEA COUNTY Lab I.D. doiress: 408 W. TEXAS AVE hone来 575-631-6977 36 5-12 2'R 33 5-11 2 18 3/ 5-110 S- 17 1' S- 12 0' 5-13 2'R しまれた。と 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. COLLER HE+HI 12m Fax # Project Owner: DEVON STATES NM ZET 88210 (G)RAB OR (C)OMP. #CONTAINERS GROUNDWATER whether tensor in contractor test, signis in involved in the standard part of the clinist for the test set person makes in which go did not provide the completion of the applicable to be above the contractor of the applicable to be above the contract by other, for the contract of the c WASTEWATER 801L OIL SLUDGE OTHER: State CHEY: Address Pitone 教 Affi Company: THLON LPE P.O. # 700 164.836.01 ACID/BASE: ICE/COOL C-JONES OTHER: 4-2-20 4-2-20 DATE 12:40 12:30 12:50 1:107 12:45 12:30 12:25 -00 1.05 Pt Yor4 THE TPH BTEX TOTAL CHLORIDES ANALYSIS REQUEST



April 23, 2020

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CASWELL 23 1H & 3H

Enclosed are the results of analyses for samples received by the laboratory on 04/20/20 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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
CHRIS JONES
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: Reported:

BTEX 8021B

04/20/2020

04/23/2020

CASWELL 23 1H & 3H

Project Number:

Project Name:

700794.338.01

mg/kg

Project Location:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/20/2020

ing Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

pie Received by:

Kelly Jacobson

### Sample ID: N. SW 1' (H001156-01)

DIEX GOZZO	,,,g,	1.9	Andryzo	a Dy1113					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND	,				
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	97.6	% 44.3-14	4					-	
Surrogate: 1-Chlorooctadecane	110 9	% 42.2-15	6						

Analyzed By: MS

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 15



### Analytical Results For:

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

Received: Reported: 04/20/2020

04/23/2020

CASWELL 23 1H & 3H

Project Name: Project Number:

700794.338.01

Project Location:

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/20/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kelly Jacobson

Sample ID: S. SW-1

1' (H001156-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9					***	
Chioride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1470	16.0	04/21/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					

Surrogate: 1-Chlorooctane

82.5 %

44.3-144

Surrogate: 1-Chlorooctadecane

93.6 %

42.2-156

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 15



### Analytical Results For:

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

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Project Location:

DEVON - LEA COUNTY, NM

Kelly Jacobson

Sample ID: E. SW-1 1' (H001156-03)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM				. =	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO > C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	94.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 15



### Analytical Results For:

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

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: E. SW-2 1' (H001156-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND				ı	
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	473	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	112	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	98.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	120	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 15



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: W. SW-1 1' (H001156-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	24.8	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	91.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: W. SW-2 1' (H001156-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.3-12	9	-					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Received:

04/20/2020

Reported:

04/23/2020

Project Name: Project Number: CASWELL 23 1H & 3H

Project Location:

700794.338.01

DEVON - LEA COUNTY, NM

Sampling Date:

04/20/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kelly Jacobson

Sample ID: S. SW-2 1' (H001156-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	64.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	11.5	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	113	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/20/2020

04/23/2020

Sampling Date:

04/20/2020

Reported:

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S - 13 A 1' (H001156-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	92.0	% 44.3-14	14		_				
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

Sample ID: S - 12 A 1' (H001156-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0,300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9	-					
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/21/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	<10.0	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	106	% 42.2-15	6						

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### Analytical Results For:

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

Received:

04/20/2020

Sampling Date:

04/20/2020

Reported:

04/23/2020

Sampling Type:

Soil

Project Name:

CASWELL 23 1H & 3H

Sampling Condition:

Cool & Intact

Project Number:

700794.338.01

Sample Received By:

Kelly Jacobson

Project Location:

DEVON - LEA COUNTY, NM

### Sample ID: S - 11 A 1' (H001156-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2,27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	16.9	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO > C28-C36	<10.0	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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### Analytical Results For:

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

Received: Reported: 04/20/2020

04/23/2020

Project Name: Project Number: CASWELL 23 1H & 3H

Project Location:

700794.338.01

DEVON - LEA COUNTY, NM

Sampling Date:

Sampling Type:

04/20/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kelly Jacobson

### Sample ID: S - 10 A 1' (H001156-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2020	ND	2.15	107	2.00	7.04	
Toluene*	<0.050	0.050	04/22/2020	ND	2.18	109	2.00	6.44	
Ethylbenzene*	<0.050	0.050	04/22/2020	ND	2.27	114	2.00	6.91	
Total Xylenes*	<0.150	0.150	04/22/2020	ND	6.66	111	6.00	7.00	
Total BTEX	<0.300	0.300	04/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	73.3-12	9				_		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/21/2020	ND	416	104	400	3.77	
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	04/21/2020	ND	216	108	200	5.11	
DRO >C10-C28*	124	10.0	04/21/2020	ND	229	115	200	10.4	
EXT DRO >C28-C36	21.9	10.0	04/21/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	106 9	% 42.2-15	6						

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### **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

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### CARDINAL

101 East Mariand, Hobbs, NM 88240 (675) 393-2326 FAX (675) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler-LIPS - Bus - Other; 5.50 Relinquished By 140011P/ Delivered By: (Circle One) Project Manager: C. Jones Company Name: THUDN LPE rojec: Name: CASWELL 23 FED IH 43H Kichos Han Moderation Eddress: 408 WITEXAS AVE home来 575-631-6977 Ampler Name; MICHAEL COLLER roject #: 186794, 338, 01 Cardinal cannot accept verbal changes. Please for written changes to (675) 893-2326 A Series in the American Series of the Serie 5-13A 1' W. SN - 2 E.SW- 2 5.56-1-0.S.D E-5W-1 N.SW Sample [.D State of the state Time: Fax # Project Owner: State: NM Zip: 88210 Received By: (G)RAB OR (C)OMP. DEVON CONTAINERS GROUNDWATER Sample Condition Coci Intact

Zi Yes Zi Yes WASTEWATER SOIL OIL SLUDGE OTHER: State Address Faut # Phone 积 i E AMI C. JONES Company: THION LPE P.O. # 700794. 338.01 ACID/BASE: ICE/COOL OTHER: 4-2020 DATE QO:41 10:50 10.35 04.01 11.10 10145 11:05 10:55 10:30 TIME BTEX TOTAL CHLORIDES SISATIVNY REQUEST

### Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

REQUEST
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