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## Remediation and Work Plan

State 14 Com 4  
Eddy County, New Mexico  
**Incident # nAPP2121620119**

## Prepared For:

Cimarex Energy Company  
600 N. Marienfeld Street, Ste. 600  
Midland, TX 79701

## Prepared By:

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

**April 13, 2022**



Chad Hensley  
**NMOCD**  
1301 W. Grand Avenue  
Artesia, NM 88210

Subject: **Remediation and Work Plan**  
State 14 Com 2  
Eddy County, New Mexico  
**Incident #nAPP2121620119**

Dear Mr. Hensley,

Cimarex Energy, Co. contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and work variance request is presented herein.

### Site Information

The State 14 Com 2 is located approximately twenty-four (24) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter E, Section 14, Township 19 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.66245 and -104.05254. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Simona-Bippus complex with 0-5 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of mixed alluvium and/or eolian sands from sedimentary rock, Alluvial Piedmont in age. This area has slight natural salinity. Drainage courses in this area are typically well drained.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 247-feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is situated 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 in an area where the groundwater is less than 50 feet bgs in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

**Approximate Depth to Groundwater****247 Feet/bgs**

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

Because the release occurred in an area where the referenced groundwater exceeds .5-mile radius, is potential high Karst, therefore the cleanup criteria for this site is as follows.

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## Incident Description

According to the C-141 Release Notification, on August 03, 2021 a release was discovered, whereby due to corrosion a hole developed in the bottom of a/an oil tank releasing 41 barrels of oil. Cimarex Energy was able to recover 28 barrels from the containment. The majority of the fluid remained inside the containment. However, some fluid escaped the containment, traversed the lease road, exited the road and impacted pasture area. The site map is presented in [Appendix I](#).

## Site Assessment

Due to the location and characteristics of the pasture impact, Talon LPE was consulted in order to conduct immediate remediation of pasture impact, and assess the lined containment.

On August 23, 2021, Talon mobilized personnel and equipment to the site and conducted an initial site assessment, as well as a site safety walk with Cimarex Energy personnel. The impacted area was mapped, photographed and the interior of the containment at source was sampled utilizing a hand auger. Cimarex personnel took proactive measures for pasture impact and requested that Talon commence remediation of the pasture area upon New Mexico One Call clearance. All soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations for the containment area are shown on the attached site plan and the results of our sampling event are presented on the following data table.

**Table I**  
08-27-21  
*Soil Sample Laboratory Results*

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	0-1'	8/23/2021	ND	ND	ND	ND	ND	-	150
	2'	8/23/2021	ND	ND	ND	ND	ND	-	330
	3'	8/23/2021	ND	ND	ND	ND	ND	-	380
	4'	8/23/2021	ND	ND	ND	ND	ND	-	620
S-2	0-1'	8/23/2021	ND	ND	ND	ND	ND	-	260
	2'	8/23/2021	ND	ND	ND	ND	ND	-	700
	3'	8/23/2021	ND	ND	ND	ND	ND	-	1100
	4'	8/23/2021	ND	ND	ND	ND	ND	-	1200
S-3	0-1'R	8/23/2021	ND	ND	ND	810	710	1520.0	640

ND=Analyte Not Detected

R=Auger Refusal

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



On August 30, 2021 upon client authorization and New Mexico line locate clearance respectively, Talon personnel and equipment were mobilized to the site in order to confirmation sample, map and photo document the excavated areas of the lease road and pasture. The lease road and pasture area were excavated to depths of 1 foot to 8 feet in depth. Complete site plans with sample positions are attached in [Appendix I](#) on Figure 2. All soil samples were properly collected, and preserved for transport to Hall Laboratories in order to confirm that NMOCD clean-up criteria had been achieved. The confirmation results from the laboratory are tabulated below.

**Table II**  
**Confirmation Soil Sample Laboratory Results**

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-4	1'	8/30/2021	ND	ND	ND	140	130	270.0	ND
S-4A	2'	9/15/2021	ND	ND	ND	ND	ND	-	62
S-5	1-1.5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-6	1-2.5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-7	1'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-8	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-9	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-10	4-5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-11	5'	8/30/2021	ND	ND	ND	17	ND	17.0	ND
S-12	5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
S-13	2-3'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-1	1'	8/30/2021	ND	ND	ND	150	130	280.0	ND
SW-1A	2'	9/15/2021	ND	ND	ND	ND	ND	-	ND
SW-2	1.5'	8/30/2021	ND	ND	ND	150	140	290.0	ND
SW-2A	2'	9/15/2021	ND	ND	ND	ND	ND	-	ND
SW-3	1-1.5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-4	1-2.5'	8/27/2021	ND	ND	ND	ND	ND	-	ND
SW-5	1-2.5'	8/27/2021	ND	ND	ND	ND	ND	-	ND
SW-6	7-8'	8/30/2021	ND	ND	ND	24	ND	24.0	ND
SW-7	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-8	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-9	7-8'	8/30/2021	ND	ND	ND	19	ND	19.0	ND
SW-10	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-11	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-12	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-13	7-8'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-14	4-5'	8/30/2021	ND	ND	ND	28	ND	28.0	ND
SW-15	4-5'	8/30/2021	ND	ND	ND	14	ND	14.0	ND
SW-16	5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-17	5'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-18	2-3'	8/30/2021	ND	ND	ND	ND	ND	-	ND
SW-19	2-3'	8/30/2021	ND	ND	ND	ND	ND	-	ND

ND=Analyte Not Detected

SW=Sidewall Sample

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

On February 17, 2022, Talon personnel returned to the site in order to complete vertical delineation of the containment area. The facility was “shut-in” for safety protocol by Cimarex Energy. Utilizing a Geo-probe unit boreholes were advanced to the extent of rock refusal encountered at 7 feet. Further attempts to advance deeper with a backhoe were achieved to 8 feet. A Hydro-vac was dispatched and utilized to reveal the Gypsum rock shelf (photo documentation). Hydro-vac tailings as well as scraped rock from the excavation floor were grabbed and transported for laboratory analysis in order to confirm vertical delineation. A composite sample was taken from the south sidewall in order to confirm horizontal delineation. Soil samples were properly retrieved, packaged, and preserved for transport via Chain of Custody to Cardinal Laboratories, as well as Eurofins Carlsbad, for analyses of BTEX, TPH, and Chloride. Based on laboratory results, total Chlorides are the analyte of concern. The confirmation results from the laboratory are tabulated below.

**Table III**  
**02/23/2022 Soil Sample Laboratory Results**

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
<b>NMOCD Table 1 Closure Criteria 19.15.29 NMAC</b>			<b>50 mg/kg</b>	<b>10 mg/kg</b>	<b>DRO + GRO+MRO combined = 100 mg/kg</b>			<b>100 mg/kg</b>	<b>600 mg/kg</b>
<b>BH-1</b>	2/17/2022	0-1'	ND	ND	ND	ND	ND	0	192
	2/17/2022	2'	ND	ND	ND	ND	ND	0	432
	2/17/2022	3'	ND	ND	ND	ND	ND	0	96
	2/17/2022	4'	ND	ND	ND	ND	ND	0	848
	2/17/2022	5'	ND	ND	ND	ND	ND	0	1600
	2/17/2022	6'	ND	ND	ND	ND	ND	0	3920
	2/17/2022	7'	ND	ND	ND	ND	ND	0	4560
<b>BH-2</b>	2/17/2022	1'	ND	ND	ND	ND	ND	0	64
	2/17/2022	2'	ND	ND	ND	ND	ND	0	176
	2/17/2022	3'	ND	ND	ND	ND	ND	0	544
	2/17/2022	4'	ND	ND	ND	ND	ND	0	688
	2/17/2022	5'	ND	ND	ND	ND	ND	0	1230
	2/17/2022	6'	ND	ND	ND	ND	ND	0	3440
	2/17/2022	7'	ND	ND	ND	ND	ND	0	1790
<b>TT-1</b>	2/22/2022	8' R	0.00279	ND	ND	154	ND	154	766
	4/02/2022	9' R	ND	ND	ND	ND	ND	-	80
<b>TT-SW</b>	2/22/2022	4' *	ND	ND	ND	ND	ND	0	22.9
<b>BH-3</b>	2/17/2022	1'	ND	ND	ND	22.3	ND	0	208
	2/17/2022	2'	ND	ND	ND	13.4	ND	13.4	240
	2/17/2022	3'	ND	ND	ND	ND	ND	0	224
	2/17/2022	4'	ND	ND	ND	26.2	ND	26.2	160

BH = Borehole (Geoprobe) TT = Test Trench SW = Sidewall ND = Analyte Not Detected \* = horizontal distance

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

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## Remedial Actions

- The spill footprint areas for lease road and pasture were excavated from depths of 1 to 8 feet bgs., and to the horizontal extent that all sidewalls and bottoms of excavated areas were remediated to Table I Standards. All samples were collected on a composite basis. Laboratory analysis confirms that NMOCD remediation guidelines for soil remediation were achieved in these areas.
- Sidewall samples were obtained in order to confirm horizontal delineation.
- The impacted area inside the containment was vertically and horizontally delineated by advancing a test trench in the areas of BH-1 and BH-2. The vertical delineation was met with a hard rock Gypsum shelf refusal at 9 feet bgs, as referenced in photographic documentation ([Appendix IV](#)).
- The impacted pasture area was excavated, backfilled with native clean sand, restored to Dunal like features, terraced to prevent erosion, and seeded with BLM LPC seed mixture as can be seen in photographic photo documentation ([Appendix IV](#)).
- Upon NMOCD approval for liner variance the impacted containment area will be excavated to 4 feet bgs, bottom and sidewall confirmation samples retrieved and a 20 mil liner seated. This area will be backfilled to grade and all infrastructure replaced.
- All contaminated soil was transported to Lea Land, LLC, a NMOCD approved disposal facility.

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## Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required for the lease road and pasture impact, and that closure with regard to these areas be granted. We furthermore request that permission and a variance be granted to excavate the interior of the containment to 4' bgs, install a 20 mil. liner, followed by a layer of sand to prevent impediment, then caliche to surface grade. The surface would be compacted and berms restored.

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

Respectfully submitted,

Talon/LPE

Rebecca S.  
Pons

Digitally signed by Rebecca S. Pons  
DN: cn=Rebecca S. Pons, ou=Talon/LPE,  
ou=Senior Environmental Project  
Manager, email=Rpons@talondoc.com,  
c=US  
Date: 2022.04.14 10:39:22 -0600

Rebecca S. Pons  
Senior Environmental Project Manager

### Attachments:

Appendix I Site Plans  
Appendix II Groundwater Data, Soil Survey, Karst Map, FEMA Map  
Appendix III C-141 Forms  
Appendix IV Photographic Documentation  
Appendix V Seed Tag  
Appendix VI Laboratory Data



## Appendix I

### Site Maps



Legend

State 14 Com 2H



State 14 Com 2H

Summit Energy Co. of Colorado  
API # 30-015-31791  
El Paso County, NM  
See Map

Survey  
Google Earth

© 2021 Google



Legend

- Containment
- Off Pad

100 ft

Google Earth

State 14 Com 2H

Chenarex Energy Co. of Colorado  
API #30-015-31791  
Google Map









State 14 Com 2H

Genarex Energy Co. of Colorado  
API# 30-015-31791  
El Paso County, NM  
Confirmation Sample Map #2

Survey  
Google Earth

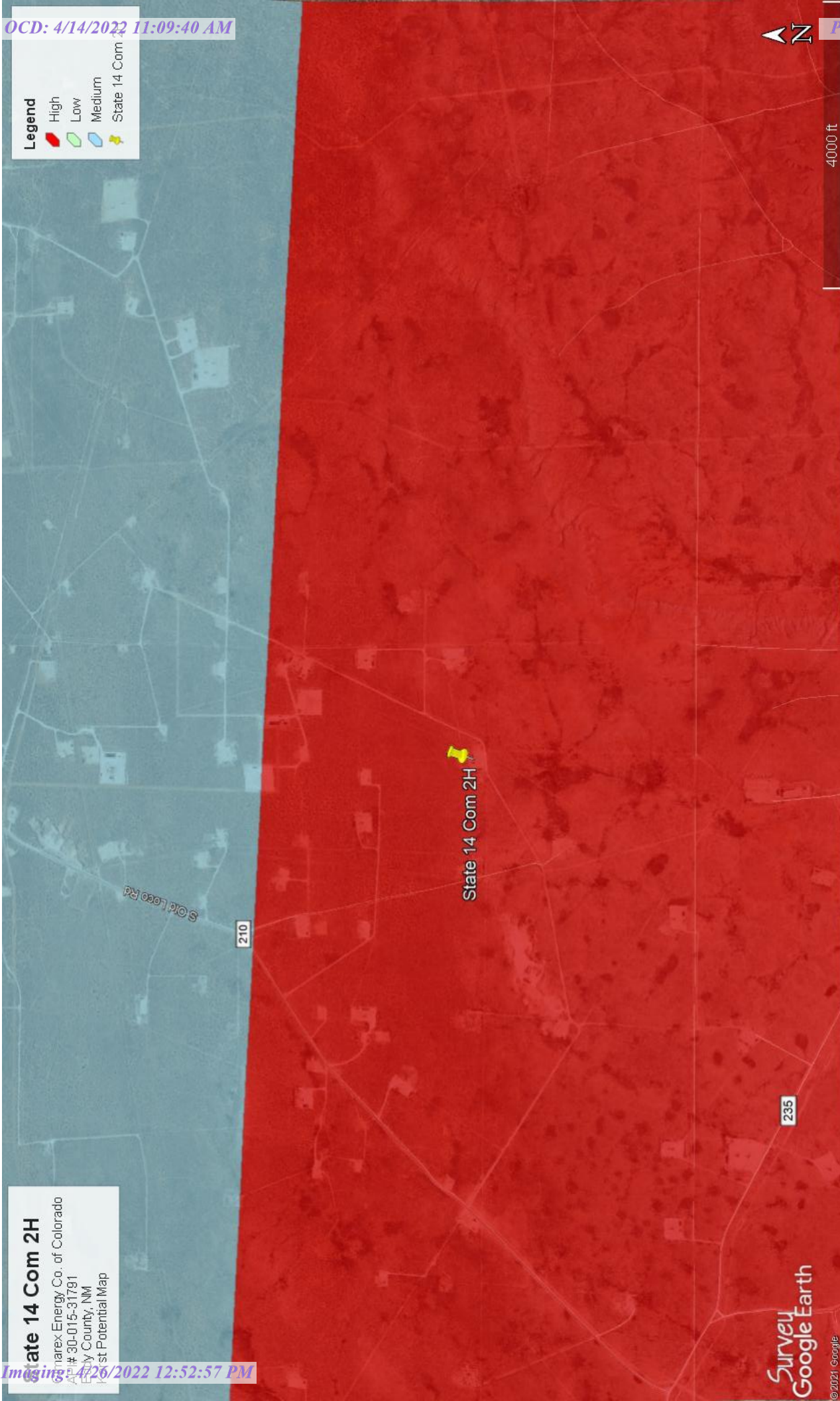
© 2021 Google





State 14 Com 2H  
Gigamon Energy Co. of Colorado  
Alt. #30-015-31791  
El Paso County, NM  
C. Rainment Source





State 14 Com 2H

Summit Energy Co. of Colorado  
Appl # 30-015-31791  
El Paso County, NM  
First Potential Map

Survey  
Google Earth  
© 2021 Google







## **Appendix II**

### **Groundwater Data, & Soil Survey**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00626 POD1</a>		CP	ED	2	3	1	03	19S	29E	587360	3617575	3653	286	247	39
<a href="#">CP 00626 POD2</a>		CP	ED	3	2	1	03	19S	29E	587660	3617880	3826	240	195	45
<a href="#">CP 00741</a>		CP	ED	1	3	2	34	19S	29E	588030	3609533*	4799	230	60	170

Average Depth to Water: **167 feet**

Minimum Depth: **60 feet**

Maximum Depth: **247 feet**

**Record Count:** 3

**Basin/County Search:**

**County:** Eddy

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 588886.39

**Northing (Y):** 3614255.74

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

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

8/4/21 8:04 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### SM—Simona-Bippus complex, 0 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5x

*Elevation:* 1,800 to 5,000 feet

*Mean annual precipitation:* 8 to 24 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 230 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Simona and similar soils:* 55 percent

*Bippus and similar soils:* 30 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Simona

##### Setting

*Landform:* Alluvial fans, plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 19 inches:* gravelly fine sandy loam

*H2 - 19 to 23 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 7 to 20 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

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

*Sodium adsorption ratio, maximum:* 1.0

*Available water capacity:* Very low (about 2.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* D

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

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*Ecological site:* R042XC002NM - Shallow Sandy  
*Hydric soil rating:* No

## Description of Bippus

### Setting

*Landform:* Alluvial fans, flood plains  
*Landform position (three-dimensional):* Rise, tal  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium

### Typical profile

*H1 - 0 to 37 inches:* silty clay loam  
*H2 - 37 to 60 inches:* clay loam

### Properties and qualities

*Slope:* 0 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* OccasionalNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Moderate (about 8.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

## Minor Components

### Simona

*Percent of map unit:* 8 percent  
*Ecological site:* R042XC002NM - Shallow Sandy  
*Hydric soil rating:* No

### Bippus

*Percent of map unit:* 7 percent  
*Ecological site:* R042XC017NM - Bottomland

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

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*Hydric soil rating:* No

## Data Source Information

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



## Appendix III

### C-141 Forms

## Rebecca Pons

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**From:** Laci Luig <lluig@cimarex.com>  
**Sent:** Thursday, August 19, 2021 12:36 PM  
**To:** Mike Bratcher, EMNRD; Chad Hensley, EMNRD; Robert Hamlet, EMNRD; Ryan Mann - NM SLO  
**Cc:** Rebecca Pons; Michael Collier  
**Subject:** nAPP2121620119

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Good afternoon,

This email serves as notification for excavation and sampling on the State 14 Com 1&2H. Excavation and sampling is scheduled to begin August 23<sup>rd</sup>. Talon will be onsite for field and confirmation sampling.

Thank you,

***Laci Luig***

**ESH Specialist**

**Cimarex Energy**

Mobile (432) 208-3035

Office (432) 571-7810

[lluig@cimarex.com](mailto:lluig@cimarex.com)

## Rebecca Pons

---

**From:** Laci Luig <lluig@cimarex.com>  
**Sent:** Thursday, August 26, 2021 10:47 AM  
**To:** Mike Bratcher, EMNRD; Chad Hensley, EMNRD; Robert Hamlet, EMNRD; Ryan Mann - NM SLO  
**Cc:** Rebecca Pons; Michael Collier  
**Subject:** RE: nAPP2121620119 State 14 Com 1 & 2H

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Talon will be collecting confirmation samples for the below release on Tuesday, August 31<sup>st</sup>.

Laci Luig  
(432) 208-3035

---

**From:** Laci Luig  
**Sent:** Thursday, August 19, 2021 1:36 PM  
**To:** Mike Bratcher, EMNRD <mike.bratcher@state.nm.us>; Chad Hensley, EMNRD <chad.hensley@state.nm.us>; Robert Hamlet, EMNRD <robert.hamlet@state.nm.us>; Ryan Mann - NM SLO <rmann@slo.state.nm.us>  
**Cc:** Rebecca Pons <rpons@talonlpe.com>; Michael Collier <mcollier@talonlpe.com>  
**Subject:** nAPP2121620119

Good afternoon,

This email serves as notification for excavation and sampling on the State 14 Com 1&2H. Excavation and sampling is scheduled to begin August 23<sup>rd</sup>. Talon will be onsite for field and confirmation sampling.

Thank you,

**Laci Luig**

**ESH Specialist**

**Cimarex Energy**

Mobile (432) 208-3035

Office (432) 571-7810

[lluig@cimarex.com](mailto:lluig@cimarex.com)

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	nAPP2121620119
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD) nAPP2121620119
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.66245 \_\_\_\_\_ Longitude -104.05254 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: State 14 Com 2	Site Type: Battery
Date Release Discovered: 8/3/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	14	19S	29E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 41	Volume Recovered (bbls) 28
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Corrosion

A hole developed at the bottom of the oil tank. Released 41 barrels oil, 35 barrels onto gravel lined containment and 6 barrels outside of containment onto the road and into the pasture area. Recovered 28 barrels oil from containment. Impacted gravel will be removed and properly disposed. A liner inspection will be scheduled and the road and pasture area will be remediated.

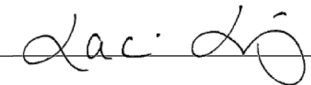


Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount of release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Gloria Garza To: Mike Bratcher, Cristina Eads, Robert Hamlet and Ryan Mann (SLO) By: Email	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 8/4/2021
email: llug@cimarex.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 04/14/2022

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	nAPP2121620119
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD) nAPP2121620119
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.66245 \_\_\_\_\_ Longitude -104.05254 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: State 14 Com 2	Site Type: Battery
Date Release Discovered: 8/3/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	14	19S	29E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 41	Volume Recovered (bbls) 28
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Corrosion

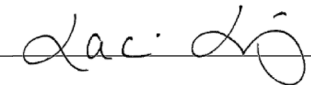
A hole developed at the bottom of the oil tank. Released 41 barrels oil, 35 barrels onto gravel lined containment and 6 barrels outside of containment onto the road and into the pasture area. Recovered 28 barrels oil from containment. Impacted gravel will be removed and properly disposed. A liner inspection will be scheduled and the road and pasture area will be remediated.

Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount of release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Gloria Garza To: Mike Bratcher, Cristina Eads, Robert Hamlet and Ryan Mann (SLO) By: Email	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 8/4/2021
email: llug@cimarex.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>247</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig\_\_\_\_\_ Title: ESH Specialist\_\_\_\_\_

Signature: Laci Luig\_\_\_\_\_ Date: 4/11/2021\_\_\_\_\_

email: laci.luig@coterra.com\_\_\_\_\_ Telephone: (432) 208-3035\_\_\_\_\_

**OCD Only**

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

Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

## Remediation Plan

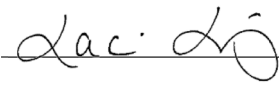
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 4/11/2021 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

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

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

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

Incident ID	nAPP2121620119
District RP	
Facility ID	
Application ID	

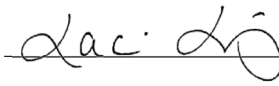
## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 4/11/2021 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

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

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  \_\_\_\_\_ Date: 04/26/2022 \_\_\_\_\_  
Printed Name: Jennifer Nobui \_\_\_\_\_ Title: Environmental Specialist A \_\_\_\_\_



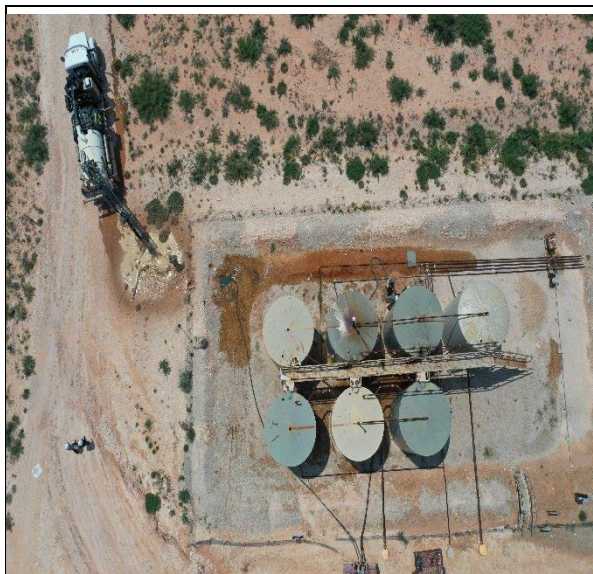


## **Appendix IV**

### Photographic Documentation

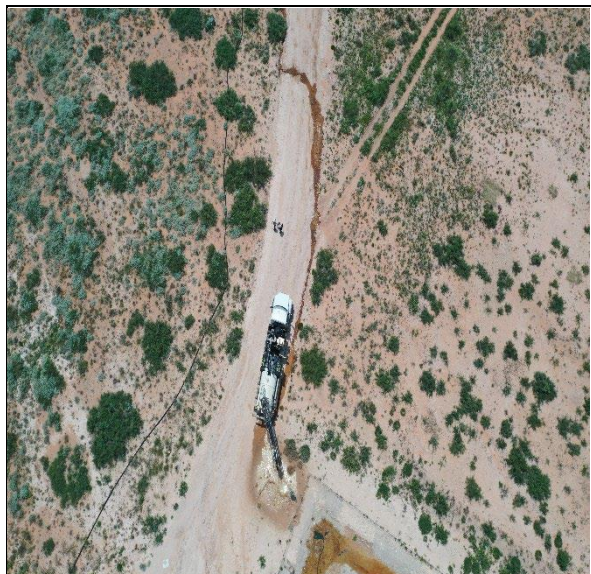


Closure Report  
Cimarex Energy Co. of Colorado  
State 14 Com 2



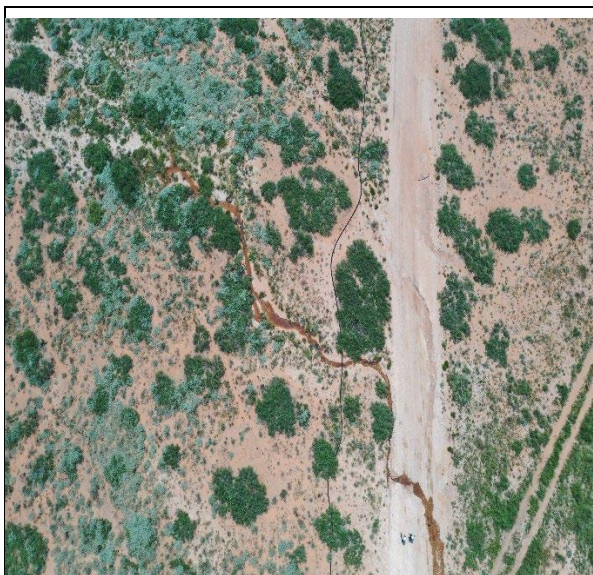
**Photograph No.1 Description:**

Spill Source-Containment Impact



**Photograph No.2 Description:**

Spill traversing lease road



**Photograph No.3 Description:**

Spill exits lease road-traverses pasture



**Photograph No.4 Description:**

Excavation of Lease Road and Pasture



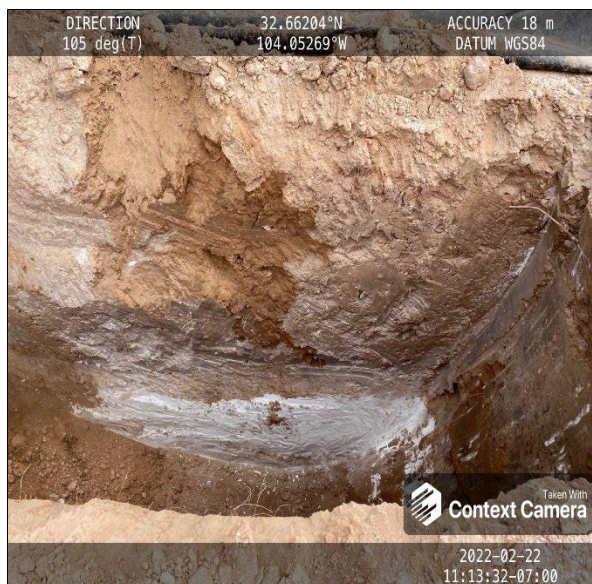


Closure Report  
Cimarex Energy Co. of Colorado  
State 14 Com 2



**Photograph No.5 Description:**

Excavation at Source



**Photograph No.6 Description:**

Test Trench Rock Refusal 9' bgs



**Photograph No.5 Description:**

Seeding adjacent to lease road



**Photograph No.6 Description:**

Seeded Pasture Area



**Photograph No.5 Description:**

Lease Road backfilled to grade



**Photograph No.6 Description:**

Pasture area backfilled to grade



## Appendix V

### Seed Tag



**BLM #2 Seed Mix****Lot #: 2050**

Net Wt: 7.99 lb

Pure Seed:	63.84%	Origin:	Purity:	Germ:	Dormant:	Ttl Viable:	Test Date:
Inert Matter:	5.92%		0.00%	29.6%	61.06%	90.67%	1/21
Other Crop:	1.00%						
Weed Seed:	0.23%						

Noxious Weeds: None

Texas Permit: 2772

Cimarex State 2 #2. Packaged in 1) 1 acre bag at 7.99 bulk pounds. Plant at 7.99 bulk pounds per acre.

curtisseed.com

4500 North Prince, Clovis, NM 88101

(575) 762-4759



## Appendix VI

### Laboratory Data



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

August 27, 2021

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX

RE: State 14 Com 2H STATE 14

OrderNo.: 2108D28

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/25/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 0-1'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 11:35:00 AM

Lab ID: 2108D28-001

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	150	60		mg/Kg	20	8/25/2021 4:14:12 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/25/2021 11:56:00 AM	62174
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/25/2021 11:56:00 AM	62174
Surr: DNOP	108	70-130		%Rec	1	8/25/2021 11:56:00 AM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	8/25/2021 11:34:50 AM	62158
Surr: BFB	102	70-130		%Rec	1	8/25/2021 11:34:50 AM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	8/25/2021 11:34:50 AM	62158
Toluene	ND	0.032		mg/Kg	1	8/25/2021 11:34:50 AM	62158
Ethylbenzene	ND	0.032		mg/Kg	1	8/25/2021 11:34:50 AM	62158
Xylenes, Total	ND	0.064		mg/Kg	1	8/25/2021 11:34:50 AM	62158
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	8/25/2021 11:34:50 AM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 2'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 11:40:00 AM

Lab ID: 2108D28-002

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	330	60		mg/Kg	20	8/25/2021 4:26:36 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/25/2021 12:09:07 PM	62174
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/25/2021 12:09:07 PM	62174
Surr: DNOP	107	70-130		%Rec	1	8/25/2021 12:09:07 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	8/25/2021 11:58:28 AM	62158
Surr: BFB	105	70-130		%Rec	1	8/25/2021 11:58:28 AM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	8/25/2021 11:58:28 AM	62158
Toluene	ND	0.032		mg/Kg	1	8/25/2021 11:58:28 AM	62158
Ethylbenzene	ND	0.032		mg/Kg	1	8/25/2021 11:58:28 AM	62158
Xylenes, Total	ND	0.064		mg/Kg	1	8/25/2021 11:58:28 AM	62158
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	8/25/2021 11:58:28 AM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 15

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 3'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 11:45:00 AM

Lab ID: 2108D28-003

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	380	60		mg/Kg	20	8/25/2021 4:39:01 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/25/2021 12:21:35 PM	62174
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/25/2021 12:21:35 PM	62174
Surr: DNOP	106	70-130		%Rec	1	8/25/2021 12:21:35 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/25/2021 12:22:09 PM	62158
Surr: BFB	104	70-130		%Rec	1	8/25/2021 12:22:09 PM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	8/25/2021 12:22:09 PM	62158
Toluene	ND	0.034		mg/Kg	1	8/25/2021 12:22:09 PM	62158
Ethylbenzene	ND	0.034		mg/Kg	1	8/25/2021 12:22:09 PM	62158
Xylenes, Total	ND	0.068		mg/Kg	1	8/25/2021 12:22:09 PM	62158
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	8/25/2021 12:22:09 PM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 4'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 11:50:00 AM

Lab ID: 2108D28-004

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	620	60		mg/Kg	20	8/25/2021 4:51:27 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/25/2021 12:34:14 PM	62174
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/25/2021 12:34:14 PM	62174
Surr: DNOP	109	70-130		%Rec	1	8/25/2021 12:34:14 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	8/25/2021 12:45:55 PM	62158
Surr: BFB	105	70-130		%Rec	1	8/25/2021 12:45:55 PM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.020	0.016		mg/Kg	1	8/25/2021 12:45:55 PM	62158
Toluene	ND	0.031		mg/Kg	1	8/25/2021 12:45:55 PM	62158
Ethylbenzene	ND	0.031		mg/Kg	1	8/25/2021 12:45:55 PM	62158
Xylenes, Total	ND	0.063		mg/Kg	1	8/25/2021 12:45:55 PM	62158
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	8/25/2021 12:45:55 PM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 0-1'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 12:20:00 PM

Lab ID: 2108D28-005

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	260	60		mg/Kg	20	8/25/2021 5:03:51 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/25/2021 12:46:57 PM	62174
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/25/2021 12:46:57 PM	62174
Surr: DNOP	108	70-130		%Rec	1	8/25/2021 12:46:57 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	8/25/2021 1:57:25 PM	62158
Surr: BFB	107	70-130		%Rec	1	8/25/2021 1:57:25 PM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.015		mg/Kg	1	8/25/2021 1:57:25 PM	62158
Toluene	ND	0.030		mg/Kg	1	8/25/2021 1:57:25 PM	62158
Ethylbenzene	ND	0.030		mg/Kg	1	8/25/2021 1:57:25 PM	62158
Xylenes, Total	ND	0.060		mg/Kg	1	8/25/2021 1:57:25 PM	62158
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	8/25/2021 1:57:25 PM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 2'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 12:25:00 PM

Lab ID: 2108D28-006

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	700	60		mg/Kg	20	8/25/2021 5:16:16 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/25/2021 12:59:35 PM	62174
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/25/2021 12:59:35 PM	62174
Surr: DNOP	106	70-130		%Rec	1	8/25/2021 12:59:35 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/25/2021 2:21:25 PM	62158
Surr: BFB	106	70-130		%Rec	1	8/25/2021 2:21:25 PM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	8/25/2021 2:21:25 PM	62158
Toluene	ND	0.035		mg/Kg	1	8/25/2021 2:21:25 PM	62158
Ethylbenzene	ND	0.035		mg/Kg	1	8/25/2021 2:21:25 PM	62158
Xylenes, Total	ND	0.070		mg/Kg	1	8/25/2021 2:21:25 PM	62158
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	8/25/2021 2:21:25 PM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 3'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 12:30:00 PM

Lab ID: 2108D28-007

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1100	59		mg/Kg	20	8/25/2021 5:28:41 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/25/2021 1:12:05 PM	62174
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/25/2021 1:12:05 PM	62174
Surr: DNOP	108	70-130		%Rec	1	8/25/2021 1:12:05 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/25/2021 2:45:24 PM	62158
Surr: BFB	106	70-130		%Rec	1	8/25/2021 2:45:24 PM	62158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	8/25/2021 2:45:24 PM	62158
Toluene	ND	0.034		mg/Kg	1	8/25/2021 2:45:24 PM	62158
Ethylbenzene	ND	0.034		mg/Kg	1	8/25/2021 2:45:24 PM	62158
Xylenes, Total	ND	0.067		mg/Kg	1	8/25/2021 2:45:24 PM	62158
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	8/25/2021 2:45:24 PM	62158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 4'

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 12:35:00 PM

Lab ID: 2108D28-008

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1200	60		mg/Kg	20	8/25/2021 5:41:06 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/25/2021 1:24:29 PM	62174
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/25/2021 1:24:29 PM	62174
Surr: DNOP	104	70-130		%Rec	1	8/25/2021 1:24:29 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/25/2021 3:57:40 PM	G80778
Surr: BFB	111	70-130		%Rec	1	8/25/2021 3:57:40 PM	G80778
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.051	0.018		mg/Kg	1	8/25/2021 3:57:40 PM	B80778
Toluene	ND	0.036		mg/Kg	1	8/25/2021 3:57:40 PM	B80778
Ethylbenzene	ND	0.036		mg/Kg	1	8/25/2021 3:57:40 PM	B80778
Xylenes, Total	ND	0.072		mg/Kg	1	8/25/2021 3:57:40 PM	B80778
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/25/2021 3:57:40 PM	B80778

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2108D28

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 0-1' R

Project: State 14 Com 2H STATE 14

Collection Date: 8/23/2021 2:00:00 PM

Lab ID: 2108D28-009

Matrix: MEOH (SOIL)

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	640	60		mg/Kg	20	8/25/2021 5:53:31 PM	62179
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	810	46		mg/Kg	5	8/25/2021 1:36:59 PM	62174
Motor Oil Range Organics (MRO)	710	230		mg/Kg	5	8/25/2021 1:36:59 PM	62174
Surr: DNOP	109	70-130		%Rec	5	8/25/2021 1:36:59 PM	62174
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/25/2021 5:10:15 PM	G80778
Surr: BFB	114	70-130		%Rec	1	8/25/2021 5:10:15 PM	G80778
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	8/25/2021 5:10:15 PM	B80778
Toluene	ND	0.033		mg/Kg	1	8/25/2021 5:10:15 PM	B80778
Ethylbenzene	ND	0.033		mg/Kg	1	8/25/2021 5:10:15 PM	B80778
Xylenes, Total	ND	0.067		mg/Kg	1	8/25/2021 5:10:15 PM	B80778
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/25/2021 5:10:15 PM	B80778

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D28  
27-Aug-21

Client: Talon Artesia

Project: State 14 Com 2H STATE 14

Sample ID: MB-62179		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 62179		RunNo: 80774						
Prep Date: 8/25/2021		Analysis Date: 8/25/2021		SeqNo: 2850756		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62179		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 62179		RunNo: 80774						
Prep Date: 8/25/2021		Analysis Date: 8/25/2021		SeqNo: 2850757		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D28  
27-Aug-21

Client: Talon Artesia

Project: State 14 Com 2H STATE 14

Sample ID: MB-62174		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS		Batch ID: 62174		RunNo: 80790							
Prep Date: 8/25/2021		Analysis Date: 8/25/2021		SeqNo: 2850615		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		100	70	130				

Sample ID: LCS-62174		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS		Batch ID: 62174		RunNo: 80790							
Prep Date: 8/25/2021		Analysis Date: 8/25/2021		SeqNo: 2850616		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	68.9	141				
Surr: DNOP	4.7		5.000		94.9	70	130				

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108D28

27-Aug-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H STATE 14

Sample ID: <b>mb-62158</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>62158</b>			RunNo: <b>80778</b>						
Prep Date: <b>8/24/2021</b>	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850793</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: <b>lcs-62158</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>62158</b>			RunNo: <b>80778</b>						
Prep Date: <b>8/24/2021</b>	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850794</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	78.6	131			
Surr: BFB	1200		1000		116	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>G80778</b>			RunNo: <b>80778</b>						
Prep Date:	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850816</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>G80778</b>			RunNo: <b>80778</b>						
Prep Date:	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850817</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1200		1000		121	70	130			

Sample ID: <b>2108d28-008ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-2 4'</b>	Batch ID: <b>G80778</b>			RunNo: <b>80778</b>						
Prep Date:	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850819</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.6	17.91	0	107	61.3	114			
Surr: BFB	890		716.3		124	70	130			

Sample ID: <b>2108d28-008amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-2 4'</b>	Batch ID: <b>G80778</b>			RunNo: <b>80778</b>						
Prep Date:	Analysis Date: <b>8/25/2021</b>			SeqNo: <b>2850820</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D28  
27-Aug-21

Client: Talon Artesia  
Project: State 14 Com 2H STATE 14

Sample ID: 2108d28-008amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-2 4'		Batch ID: G80778		RunNo: 80778						
Prep Date:		Analysis Date: 8/25/2021		SeqNo: 2850820		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	3.6	17.91	0	127	61.3	114	17.4	20	S
Surr: BFB	910		716.3		127	70	130	0	0	

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108D28

27-Aug-21

**Client:** Talon Artesia**Project:** State 14 Com 2H STATE 14

Sample ID: <b>mb-62158</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62158</b>	RunNo: <b>80778</b>								
Prep Date: <b>8/24/2021</b>	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2850826</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	70	130			

Sample ID: <b>LCS-62158</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62158</b>	RunNo: <b>80778</b>								
Prep Date: <b>8/24/2021</b>	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2850827</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B80778</b>	RunNo: <b>80778</b>								
Prep Date:	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2850850</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B80778</b>	RunNo: <b>80778</b>								
Prep Date:	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2850851</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.7	80	120			
Toluene	0.89	0.050	1.000	0	89.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **2108D28**

27-Aug-21

**Client:** Talon Artesia**Project:** State 14 Com 2H STATE 14

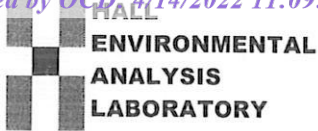
Sample ID: <b>2108d28-009ams</b>		SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-3 0-1' R</b>		Batch ID: <b>B80778</b>		RunNo: <b>80778</b>						
Prep Date:		Analysis Date: <b>8/25/2021</b>		SeqNo: <b>2850854</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.017	0.6653	0	82.8	80	120			
Toluene	0.56	0.033	0.6653	0	84.2	80	120			
Ethylbenzene	0.56	0.033	0.6653	0	84.1	80	120			
Xylenes, Total	1.7	0.067	1.996	0	83.5	80	120			
Surr: 4-Bromofluorobenzene	0.70		0.6653		105	70	130			

Sample ID: <b>2108d28-009amsd</b>		SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-3 0-1' R</b>		Batch ID: <b>B80778</b>		RunNo: <b>80778</b>						
Prep Date:		Analysis Date: <b>8/25/2021</b>		SeqNo: <b>2850856</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.017	0.6653	0	107	80	120	25.3	20	R
Toluene	0.72	0.033	0.6653	0	109	80	120	25.5	20	R
Ethylbenzene	0.72	0.033	0.6653	0	108	80	120	25.3	20	R
Xylenes, Total	2.2	0.067	1.996	0	108	80	120	25.7	20	R
Surr: 4-Bromofluorobenzene	0.71		0.6653		107	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



## Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2108D28

RcptNo: 1

Received By: Cheyenne Cason 8/25/2021 7:10:00 AM

Completed By: Sean Livingston 8/25/2021 8:10:30 AM

Reviewed By: Jn 8/25/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: KPA 8/25/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 08, 2021

Rebecca Pons  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX:

RE: State 14 Com 2H

OrderNo.: 2109004

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 29 sample(s) on 9/1/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 1'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:00:00 AM

Lab ID: 2109004-001

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 8:32:52 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	140	9.4		mg/Kg	1	9/2/2021 12:45:53 PM	62342
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	9/2/2021 12:45:53 PM	62342
Surr: DNOP	102	70-130		%Rec	1	9/2/2021 12:45:53 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	9/2/2021 12:47:00 PM	62334
Surr: BFB	93.6	70-130		%Rec	5	9/2/2021 12:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.12		mg/Kg	5	9/2/2021 12:47:00 PM	62334
Toluene	ND	0.24		mg/Kg	5	9/2/2021 12:47:00 PM	62334
Ethylbenzene	ND	0.24		mg/Kg	5	9/2/2021 12:47:00 PM	62334
Xylenes, Total	ND	0.49		mg/Kg	5	9/2/2021 12:47:00 PM	62334
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	5	9/2/2021 12:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 1-1.5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:05:00 AM

Lab ID: 2109004-002

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 9:10:05 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/2/2021 12:55:38 PM	62342
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/2/2021 12:55:38 PM	62342
Surr: DNOP	104	70-130		%Rec	1	9/2/2021 12:55:38 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2021 1:07:00 PM	62334
Surr: BFB	88.8	70-130		%Rec	1	9/2/2021 1:07:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 1:07:00 PM	62334
Toluene	ND	0.050		mg/Kg	1	9/2/2021 1:07:00 PM	62334
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2021 1:07:00 PM	62334
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2021 1:07:00 PM	62334
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	1	9/2/2021 1:07:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 1-2.5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:10:00 AM

Lab ID: 2109004-003

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	9/3/2021 9:47:18 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	9/2/2021 1:05:23 PM	62342
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/2/2021 1:05:23 PM	62342
Surr: DNOP	111	70-130		%Rec	1	9/2/2021 1:05:23 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2021 1:27:00 PM	62334
Surr: BFB	91.1	70-130		%Rec	1	9/2/2021 1:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 1:27:00 PM	62334
Toluene	ND	0.050		mg/Kg	1	9/2/2021 1:27:00 PM	62334
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2021 1:27:00 PM	62334
Xylenes, Total	ND	0.10		mg/Kg	1	9/2/2021 1:27:00 PM	62334
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	9/2/2021 1:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 1'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:15:00 AM

Lab ID: 2109004-004

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 9:59:43 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/2/2021 1:15:09 PM	62342
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2021 1:15:09 PM	62342
Surr: DNOP	112	70-130		%Rec	1	9/2/2021 1:15:09 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 1:47:00 PM	62334
Surr: BFB	95.0	70-130		%Rec	1	9/2/2021 1:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 1:47:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 1:47:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 1:47:00 PM	62334
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2021 1:47:00 PM	62334
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	9/2/2021 1:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:20:00 AM

Lab ID: 2109004-005

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 10:36:55 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/2/2021 1:24:56 PM	62342
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/2/2021 1:24:56 PM	62342
Surr: DNOP	114	70-130		%Rec	1	9/2/2021 1:24:56 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 2:07:00 PM	62334
Surr: BFB	93.8	70-130		%Rec	1	9/2/2021 2:07:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 2:07:00 PM	62334
Toluene	ND	0.048		mg/Kg	1	9/2/2021 2:07:00 PM	62334
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 2:07:00 PM	62334
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2021 2:07:00 PM	62334
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	9/2/2021 2:07:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:25:00 AM

Lab ID: 2109004-006

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 10:49:20 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/2/2021 1:34:44 PM	62342
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2021 1:34:44 PM	62342
Surr: DNOP	122	70-130		%Rec	1	9/2/2021 1:34:44 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2021 2:27:00 PM	62334
Surr: BFB	94.3	70-130		%Rec	1	9/2/2021 2:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 2:27:00 PM	62334
Toluene	ND	0.050		mg/Kg	1	9/2/2021 2:27:00 PM	62334
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2021 2:27:00 PM	62334
Xylenes, Total	ND	0.10		mg/Kg	1	9/2/2021 2:27:00 PM	62334
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	9/2/2021 2:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10 4-5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:30:00 AM

Lab ID: 2109004-007

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 11:01:44 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/2/2021 1:44:41 PM	62342
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2021 1:44:41 PM	62342
Surr: DNOP	121	70-130		%Rec	1	9/2/2021 1:44:41 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2021 3:27:00 PM	62334
Surr: BFB	93.4	70-130		%Rec	1	9/2/2021 3:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 3:27:00 PM	62334
Toluene	ND	0.050		mg/Kg	1	9/2/2021 3:27:00 PM	62334
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2021 3:27:00 PM	62334
Xylenes, Total	ND	0.10		mg/Kg	1	9/2/2021 3:27:00 PM	62334
Surr: 4-Bromofluorobenzene	80.1	70-130		%Rec	1	9/2/2021 3:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:35:00 AM

Lab ID: 2109004-008

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 11:14:09 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	10		mg/Kg	1	9/2/2021 1:54:39 PM	62342
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2021 1:54:39 PM	62342
Surr: DNOP	106	70-130		%Rec	1	9/2/2021 1:54:39 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2021 3:47:00 PM	62334
Surr: BFB	89.4	70-130		%Rec	1	9/2/2021 3:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 3:47:00 PM	62334
Toluene	ND	0.050		mg/Kg	1	9/2/2021 3:47:00 PM	62334
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2021 3:47:00 PM	62334
Xylenes, Total	ND	0.10		mg/Kg	1	9/2/2021 3:47:00 PM	62334
Surr: 4-Bromofluorobenzene	79.3	70-130		%Rec	1	9/2/2021 3:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:40:00 AM

Lab ID: 2109004-009

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	9/3/2021 11:26:33 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/2/2021 2:04:35 PM	62342
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/2/2021 2:04:35 PM	62342
Surr: DNOP	112	70-130		%Rec	1	9/2/2021 2:04:35 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 4:07:00 PM	62334
Surr: BFB	93.0	70-130		%Rec	1	9/2/2021 4:07:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 4:07:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 4:07:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 4:07:00 PM	62334
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2021 4:07:00 PM	62334
Surr: 4-Bromofluorobenzene	78.8	70-130		%Rec	1	9/2/2021 4:07:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-13 2-3'

Project: State 14 Com 2H

Collection Date: 8/30/2021 9:45:00 AM

Lab ID: 2109004-010

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 11:38:57 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/2/2021 2:14:33 PM	62342
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/2/2021 2:14:33 PM	62342
Surr: DNOP	107	70-130		%Rec	1	9/2/2021 2:14:33 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 4:27:00 PM	62334
Surr: BFB	92.2	70-130		%Rec	1	9/2/2021 4:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 4:27:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 4:27:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 4:27:00 PM	62334
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2021 4:27:00 PM	62334
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	1	9/2/2021 4:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-1 1'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:00:00 AM

Lab ID: 2109004-011

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 11:51:22 AM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	150	9.4		mg/Kg	1	9/2/2021 2:24:27 PM	62342
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	9/2/2021 2:24:27 PM	62342
Surr: DNOP	102	70-130		%Rec	1	9/2/2021 2:24:27 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 4:47:00 PM	62334
Surr: BFB	92.0	70-130		%Rec	1	9/2/2021 4:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 4:47:00 PM	62334
Toluene	ND	0.048		mg/Kg	1	9/2/2021 4:47:00 PM	62334
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 4:47:00 PM	62334
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2021 4:47:00 PM	62334
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	9/2/2021 4:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-2 1-1.5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:05:00 AM

Lab ID: 2109004-012

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 12:03:46 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	150	9.8		mg/Kg	1	9/2/2021 2:34:20 PM	62342
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	9/2/2021 2:34:20 PM	62342
Surr: DNOP	110	70-130		%Rec	1	9/2/2021 2:34:20 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 5:27:00 PM	62334
Surr: BFB	92.7	70-130		%Rec	1	9/2/2021 5:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 5:27:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 5:27:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 5:27:00 PM	62334
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2021 5:27:00 PM	62334
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	9/2/2021 5:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-3 1-1.5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:10:00 AM

Lab ID: 2109004-013

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 12:16:10 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	9/2/2021 2:44:12 PM	62342
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	9/2/2021 2:44:12 PM	62342
Surr: DNOP	116	70-130		%Rec	1	9/2/2021 2:44:12 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 5:47:00 PM	62334
Surr: BFB	100	70-130		%Rec	1	9/2/2021 5:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 5:47:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 5:47:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 5:47:00 PM	62334
Xylenes, Total	ND	0.097		mg/Kg	1	9/2/2021 5:47:00 PM	62334
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	9/2/2021 5:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-4 1-2.5'

Project: State 14 Com 2H

Collection Date: 8/27/2021 1:00:00 PM

Lab ID: 2109004-014

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 12:28:34 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/2/2021 2:54:04 PM	62342
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/2/2021 2:54:04 PM	62342
Surr: DNOP	113	70-130		%Rec	1	9/2/2021 2:54:04 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 6:07:00 PM	62334
Surr: BFB	87.7	70-130		%Rec	1	9/2/2021 6:07:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 6:07:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 6:07:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 6:07:00 PM	62334
Xylenes, Total	ND	0.097		mg/Kg	1	9/2/2021 6:07:00 PM	62334
Surr: 4-Bromofluorobenzene	78.4	70-130		%Rec	1	9/2/2021 6:07:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-5 1-2.5'

Project: State 14 Com 2H

Collection Date: 8/27/2021 1:05:00 PM

Lab ID: 2109004-015

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	9/3/2021 1:05:47 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/2/2021 3:03:55 PM	62342
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/2/2021 3:03:55 PM	62342
Surr: DNOP	121	70-130		%Rec	1	9/2/2021 3:03:55 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 6:27:00 PM	62334
Surr: BFB	86.6	70-130		%Rec	1	9/2/2021 6:27:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 6:27:00 PM	62334
Toluene	ND	0.049		mg/Kg	1	9/2/2021 6:27:00 PM	62334
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 6:27:00 PM	62334
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2021 6:27:00 PM	62334
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	9/2/2021 6:27:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-6 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:15:00 AM

Lab ID: 2109004-016

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 1:18:12 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	24	9.7		mg/Kg	1	9/2/2021 3:13:45 PM	62342
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2021 3:13:45 PM	62342
Surr: DNOP	109	70-130		%Rec	1	9/2/2021 3:13:45 PM	62342
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2021 6:47:00 PM	62334
Surr: BFB	90.0	70-130		%Rec	1	9/2/2021 6:47:00 PM	62334
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/2/2021 6:47:00 PM	62334
Toluene	ND	0.047		mg/Kg	1	9/2/2021 6:47:00 PM	62334
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2021 6:47:00 PM	62334
Xylenes, Total	ND	0.094		mg/Kg	1	9/2/2021 6:47:00 PM	62334
Surr: 4-Bromofluorobenzene	80.1	70-130		%Rec	1	9/2/2021 6:47:00 PM	62334

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-7 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:20:00 AM

Lab ID: 2109004-017

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 1:30:37 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/3/2021 6:05:50 PM	62355
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 6:05:50 PM	62355
Surr: DNOP	89.4	70-130		%Rec	1	9/3/2021 6:05:50 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2021 9:03:13 AM	62338
Surr: BFB	108	70-130		%Rec	1	9/2/2021 9:03:13 AM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 9:03:13 AM	62338
Toluene	ND	0.047		mg/Kg	1	9/2/2021 9:03:13 AM	62338
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2021 9:03:13 AM	62338
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2021 9:03:13 AM	62338
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/2/2021 9:03:13 AM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-8 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:25:00 AM

Lab ID: 2109004-018

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 1:43:01 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/3/2021 6:35:18 PM	62355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/3/2021 6:35:18 PM	62355
Surr: DNOP	91.9	70-130		%Rec	1	9/3/2021 6:35:18 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 11:48:01 AM	62338
Surr: BFB	111	70-130		%Rec	1	9/2/2021 11:48:01 AM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 11:48:01 AM	62338
Toluene	ND	0.048		mg/Kg	1	9/2/2021 11:48:01 AM	62338
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 11:48:01 AM	62338
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2021 11:48:01 AM	62338
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	9/2/2021 11:48:01 AM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-9 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:30:00 AM

Lab ID: 2109004-019

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 1:55:26 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	19	9.9		mg/Kg	1	9/3/2021 6:45:11 PM	62355
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/3/2021 6:45:11 PM	62355
Surr: DNOP	89.6	70-130		%Rec	1	9/3/2021 6:45:11 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2021 12:58:45 PM	62338
Surr: BFB	109	70-130		%Rec	1	9/2/2021 12:58:45 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 12:58:45 PM	62338
Toluene	ND	0.047		mg/Kg	1	9/2/2021 12:58:45 PM	62338
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2021 12:58:45 PM	62338
Xylenes, Total	ND	0.094		mg/Kg	1	9/2/2021 12:58:45 PM	62338
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/2/2021 12:58:45 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-10 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:35:00 AM

Lab ID: 2109004-020

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 2:07:51 PM	62382
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/3/2021 6:55:06 PM	62355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/3/2021 6:55:06 PM	62355
Surr: DNOP	91.1	70-130		%Rec	1	9/3/2021 6:55:06 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/2/2021 1:22:26 PM	62338
Surr: BFB	113	70-130		%Rec	1	9/2/2021 1:22:26 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	9/2/2021 1:22:26 PM	62338
Toluene	ND	0.046		mg/Kg	1	9/2/2021 1:22:26 PM	62338
Ethylbenzene	ND	0.046		mg/Kg	1	9/2/2021 1:22:26 PM	62338
Xylenes, Total	ND	0.092		mg/Kg	1	9/2/2021 1:22:26 PM	62338
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/2/2021 1:22:26 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-11 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:40:00 AM

Lab ID: 2109004-021

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 3:34:42 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/3/2021 7:05:01 PM	62355
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/3/2021 7:05:01 PM	62355
Surr: DNOP	89.2	70-130		%Rec	1	9/3/2021 7:05:01 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 1:46:05 PM	62338
Surr: BFB	112	70-130		%Rec	1	9/2/2021 1:46:05 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 1:46:05 PM	62338
Toluene	ND	0.048		mg/Kg	1	9/2/2021 1:46:05 PM	62338
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 1:46:05 PM	62338
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2021 1:46:05 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/2/2021 1:46:05 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-12 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:45:00 AM

Lab ID: 2109004-022

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	9/3/2021 3:47:07 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/3/2021 7:14:59 PM	62355
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 7:14:59 PM	62355
Surr: DNOP	94.3	70-130		%Rec	1	9/3/2021 7:14:59 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 2:09:45 PM	62338
Surr: BFB	110	70-130		%Rec	1	9/2/2021 2:09:45 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 2:09:45 PM	62338
Toluene	ND	0.049		mg/Kg	1	9/2/2021 2:09:45 PM	62338
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 2:09:45 PM	62338
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2021 2:09:45 PM	62338
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	9/2/2021 2:09:45 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-13 7-8'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:50:00 AM

Lab ID: 2109004-023

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 3:59:32 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/3/2021 7:24:57 PM	62355
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 7:24:57 PM	62355
Surr: DNOP	91.7	70-130		%Rec	1	9/3/2021 7:24:57 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 2:33:26 PM	62338
Surr: BFB	109	70-130		%Rec	1	9/2/2021 2:33:26 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 2:33:26 PM	62338
Toluene	ND	0.049		mg/Kg	1	9/2/2021 2:33:26 PM	62338
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 2:33:26 PM	62338
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2021 2:33:26 PM	62338
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	9/2/2021 2:33:26 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-14 4-5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 10:55:00 AM

Lab ID: 2109004-024

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	9/3/2021 4:11:57 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	28	9.4		mg/Kg	1	9/3/2021 7:34:58 PM	62355
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 7:34:58 PM	62355
Surr: DNOP	104	70-130		%Rec	1	9/3/2021 7:34:58 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2021 2:57:10 PM	62338
Surr: BFB	110	70-130		%Rec	1	9/2/2021 2:57:10 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 2:57:10 PM	62338
Toluene	ND	0.047		mg/Kg	1	9/2/2021 2:57:10 PM	62338
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2021 2:57:10 PM	62338
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2021 2:57:10 PM	62338
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/2/2021 2:57:10 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-15 4-5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 11:00:00 AM

Lab ID: 2109004-025

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 4:24:22 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	9/3/2021 7:44:57 PM	62355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/3/2021 7:44:57 PM	62355
Surr: DNOP	90.4	70-130		%Rec	1	9/3/2021 7:44:57 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 3:20:49 PM	62338
Surr: BFB	108	70-130		%Rec	1	9/2/2021 3:20:49 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 3:20:49 PM	62338
Toluene	ND	0.048		mg/Kg	1	9/2/2021 3:20:49 PM	62338
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 3:20:49 PM	62338
Xylenes, Total	ND	0.097		mg/Kg	1	9/2/2021 3:20:49 PM	62338
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	9/2/2021 3:20:49 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-16 5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 11:05:00 AM

Lab ID: 2109004-026

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 4:36:46 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/3/2021 7:55:00 PM	62355
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 7:55:00 PM	62355
Surr: DNOP	91.8	70-130		%Rec	1	9/3/2021 7:55:00 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/2/2021 3:44:25 PM	62338
Surr: BFB	112	70-130		%Rec	1	9/2/2021 3:44:25 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	9/2/2021 3:44:25 PM	62338
Toluene	ND	0.046		mg/Kg	1	9/2/2021 3:44:25 PM	62338
Ethylbenzene	ND	0.046		mg/Kg	1	9/2/2021 3:44:25 PM	62338
Xylenes, Total	ND	0.092		mg/Kg	1	9/2/2021 3:44:25 PM	62338
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/2/2021 3:44:25 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-17 5'

Project: State 14 Com 2H

Collection Date: 8/30/2021 11:10:00 AM

Lab ID: 2109004-027

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 4:49:11 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/3/2021 8:05:13 PM	62355
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 8:05:13 PM	62355
Surr: DNOP	95.1	70-130		%Rec	1	9/3/2021 8:05:13 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2021 4:55:19 PM	62338
Surr: BFB	112	70-130		%Rec	1	9/2/2021 4:55:19 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/2/2021 4:55:19 PM	62338
Toluene	ND	0.048		mg/Kg	1	9/2/2021 4:55:19 PM	62338
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2021 4:55:19 PM	62338
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2021 4:55:19 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/2/2021 4:55:19 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-18 2-3'

Project: State 14 Com 2H

Collection Date: 8/30/2021 11:15:00 AM

Lab ID: 2109004-028

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 5:01:36 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/3/2021 8:15:26 PM	62355
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/3/2021 8:15:26 PM	62355
Surr: DNOP	95.4	70-130		%Rec	1	9/3/2021 8:15:26 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 5:18:58 PM	62338
Surr: BFB	111	70-130		%Rec	1	9/2/2021 5:18:58 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 5:18:58 PM	62338
Toluene	ND	0.049		mg/Kg	1	9/2/2021 5:18:58 PM	62338
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 5:18:58 PM	62338
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2021 5:18:58 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/2/2021 5:18:58 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2109004

Date Reported: 9/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SW-19 2-3'

Project: State 14 Com 2H

Collection Date: 8/30/2021 11:20:00 AM

Lab ID: 2109004-029

Matrix: SOIL

Received Date: 9/1/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/3/2021 5:14:00 PM	62384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/3/2021 8:25:36 PM	62355
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/3/2021 8:25:36 PM	62355
Surr: DNOP	97.7	70-130		%Rec	1	9/3/2021 8:25:36 PM	62355
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2021 5:42:33 PM	62338
Surr: BFB	112	70-130		%Rec	1	9/2/2021 5:42:33 PM	62338
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/2/2021 5:42:33 PM	62338
Toluene	ND	0.049		mg/Kg	1	9/2/2021 5:42:33 PM	62338
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2021 5:42:33 PM	62338
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2021 5:42:33 PM	62338
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/2/2021 5:42:33 PM	62338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109004

08-Sep-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H

Sample ID: <b>MB-62382</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62382</b>	RunNo: <b>81060</b>								
Prep Date: <b>9/3/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2860974</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-62382</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62382</b>	RunNo: <b>81060</b>								
Prep Date: <b>9/3/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2860975</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: <b>MB-62384</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62384</b>	RunNo: <b>81060</b>								
Prep Date: <b>9/3/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2861006</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-62384</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62384</b>	RunNo: <b>81060</b>								
Prep Date: <b>9/3/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2861007</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109004

08-Sep-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H

Sample ID: <b>LCS-62342</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62342</b>	RunNo: <b>81003</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2858862</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	68.9	135			
Surr: DNOP	4.4		5.000		89.0	70	130			

Sample ID: <b>MB-62342</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62342</b>	RunNo: <b>81003</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2858864</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	70	130			

Sample ID: <b>MB-62355</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62355</b>	RunNo: <b>81036</b>								
Prep Date: <b>9/2/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2860688</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: <b>LCS-62355</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62355</b>	RunNo: <b>81036</b>								
Prep Date: <b>9/2/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2860691</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.9	68.9	135			
Surr: DNOP	4.0		5.000		80.2	70	130			

Sample ID: <b>2109004-017AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW-7 7-8'</b>	Batch ID: <b>62355</b>	RunNo: <b>81036</b>								
Prep Date: <b>9/2/2021</b>	Analysis Date: <b>9/3/2021</b>	SeqNo: <b>2860698</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.1	45.70	0	102	39.3	155			
Surr: DNOP	4.2		4.570		92.1	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109004  
08-Sep-21

Client: Talon Artesia  
Project: State 14 Com 2H

Sample ID: 2109004-017AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SW-7 7-8'		Batch ID: 62355		RunNo: 81036						
Prep Date: 9/2/2021		Analysis Date: 9/3/2021		SeqNo: 2860701		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.4	47.17	0	99.6	39.3	155	0.979	23.4	
Surr: DNOP	4.1		4.717		87.4	70	130	0	0	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109004

08-Sep-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H

Sample ID: <b>mb-62338</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859296</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	70	130			

Sample ID: <b>lcs-62338</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859297</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1200		1000		121	70	130			

Sample ID: <b>2109004-017ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW-7 7-8'</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859299</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	24.85	0	122	61.3	114			S
Surr: BFB	1200		994.0		122	70	130			

Sample ID: <b>2109004-017amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SW-7 7-8'</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859300</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.63	0	119	61.3	114	7.53	20	S
Surr: BFB	1200		945.2		123	70	130	0	0	

Sample ID: <b>mb-62334</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62334</b>	RunNo: <b>81018</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859373</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.5	70	130			

Sample ID: <b>lcs-62334</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62334</b>	RunNo: <b>81018</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859374</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 210900408-Sep-21

Client: Talon Artesia  
Project: State 14 Com 2H

Sample ID: <b>Ics-62334</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>		Batch ID: <b>62334</b>			RunNo: <b>81018</b>					
Prep Date: <b>9/1/2021</b>		Analysis Date: <b>9/2/2021</b>			SeqNo: <b>2859374</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1000		1000		105	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 34 of 36

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109004

08-Sep-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H

Sample ID: <b>mb-62338</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859341</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>LCS-62338</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859342</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	95.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>2109004-018ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-8 7-8'</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859345</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9766	0	110	80	120			
Toluene	1.1	0.049	0.9766	0	113	80	120			
Ethylbenzene	1.1	0.049	0.9766	0.009886	113	80	120			
Xylenes, Total	3.3	0.098	2.930	0	113	80	120			
Surr: 4-Bromofluorobenzene	0.99		0.9766		101	70	130			

Sample ID: <b>2109004-018amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-8 7-8'</b>	Batch ID: <b>62338</b>	RunNo: <b>81017</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859346</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9551	0	109	80	120	3.39	20	
Toluene	1.1	0.048	0.9551	0	112	80	120	3.40	20	
Ethylbenzene	1.1	0.048	0.9551	0.009886	112	80	120	3.23	20	
Xylenes, Total	3.2	0.096	2.865	0	112	80	120	2.49	20	
Surr: 4-Bromofluorobenzene	0.96		0.9551		100	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 35 of 36



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109004

08-Sep-21

**Client:** Talon Artesia  
**Project:** State 14 Com 2H

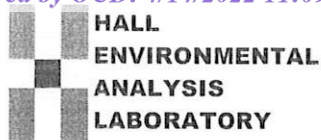
Sample ID: <b>mb-62334</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62334</b>	RunNo: <b>81018</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859417</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		81.9	70	130			

Sample ID: <b>lcs-62334</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62334</b>	RunNo: <b>81018</b>								
Prep Date: <b>9/1/2021</b>	Analysis Date: <b>9/2/2021</b>	SeqNo: <b>2859419</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.4	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2109004

RcptNo: 1

Received By: Cheyenne Cason 9/1/2021 7:30:00 AM

Completed By: Sean Livingston 9/1/2021 8:56:19 AM

Reviewed By: *Cime* *8/9/1/21**Chad**Sean Livingston*Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: *JR 9/1/21*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				





## Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave

Artesia, NM 88210

Phone #: 575.746.8768

Email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 4 Days

☐ Standard ☐ Rush

Project Name:

State 14 Com 2H (State 14)

Project #:

701162.111.01

Project Manager:

R. Pons

Sampler: M. Collier

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.6 - 0.2 = 2.4

Container Type and #

Preservative Type

HEAL No.

Glass/1

Ice/Cool

013

014

015

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## Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave

Artesia, NM 88210

Phone #: 575.746.8768

Email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

4 days

☐ Standard ☐ Rush

Project Name:

State 14 Com 2H (State 14)

Project #:

701162.111.01

Project Manager:

R. Pons

Sampler: M. Collier

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.6 - 0.2 = 2.4

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

8/30/2021 11:00 Soil SW-15 4-5'

11:05 SW-16 5'

11:10 SW-17 5'

11:15 SW-18 2-3'

11:20 SW-19 2-3'

Date: 8/31/21 1025

Relinquished by: M. Collier

Received by: C. Collier

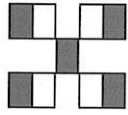
Date: 8/31/21 1025

Date: 8/31/21 1025

Relinquished by: C. Collier

Received by: C. Collier

Date: 8/31/21 0730

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Chlorides

BTEX

TPH

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

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X

X

Remarks:

Pg 3 of 3





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

---

February 23, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CIMAREX ST. 14 COM

Enclosed are the results of analyses for samples received by the laboratory on 02/17/22 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/17/2022	Sampling Date:	02/17/2022
Reported:	02/23/2022	Sampling Type:	Soil
Project Name:	CIMAREX ST. 14 COM	Sampling Condition:	Cool & Intact
Project Number:	701162.114.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: BH 1 0-1' (H220633-01)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/19/2022	ND	416	104	400	3.77		

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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 2' (H220633-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	0.097	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/19/2022	ND	416	104	400	3.77		

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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 68.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 3' (H220633-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980	
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66	
Total BTEX	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/19/2022	ND	416	104	400	3.77	

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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 4' (H220633-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	02/19/2022	ND	416	104	400	3.77		

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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 5' (H220633-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	02/19/2022	ND	416	104	400	3.77		

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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 6' (H220633-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	02/19/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 1 7' (H220633-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980	
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66	
Total BTEX	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.7 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 1' (H220633-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980	
Toluene*	0.093	0.050	02/22/2022	ND	2.20	110	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66	
Total BTEX	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.8 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 2' (H220633-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.24	112	2.00	0.980		
Toluene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.20	110	2.00	1.45		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.79	113	6.00	1.66		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 3' (H220633-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411	
Toluene*	0.123	0.050	02/22/2022	ND	2.19	110	2.00	0.479	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80	
Total BTEX	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 4' (H220633-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411	
Toluene*	0.059	0.050	02/22/2022	ND	2.19	110	2.00	0.479	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80	
Total BTEx	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.1 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 5' (H220633-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411		
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 6' (H220633-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411	
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80	
Total BTEx	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 2 7' (H220633-14)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411		
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 3 1' (H220633-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411		
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	22.3	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 3 2' (H220633-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411		
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80		
Total BTEX	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	13.4	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.0 % 59.5-142

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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 3 3' (H220633-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411		
Toluene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.479		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80		
Total BTEx	<0.300	0.300	02/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/17/2022  
 Reported: 02/23/2022  
 Project Name: CIMAREX ST. 14 COM  
 Project Number: 701162.114.01  
 Project Location: EDDY CO NM

Sampling Date: 02/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 3 4' (H220633-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2022	ND	2.19	110	2.00	0.0411	
Toluene*	0.083	0.050	02/22/2022	ND	2.19	110	2.00	0.479	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.11	106	2.00	0.950	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.57	109	6.00	1.80	
Total BTEX	<0.300	0.300	02/22/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/19/2022	ND	416	104	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	02/21/2022	ND	195	97.5	200	2.99	
<b>DRO &gt;C10-C28*</b>	<b>26.2</b>	10.0	02/21/2022	ND	193	96.7	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

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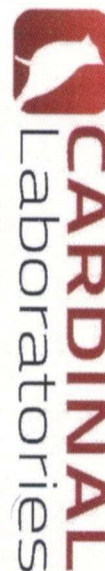
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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Valco CP						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>					
<b>Project Manager:</b> L. Bors						<b>P.O. #:</b>											
<b>Address:</b> 504 Tern						<b>Company:</b>											
<b>City:</b> Antera						<b>Attn:</b>											
<b>State:</b> NM <b>Zip:</b> 88210						<b>Address:</b>											
<b>Phone #:</b> (505) 746-8769 <b>Fax #:</b>						<b>City:</b>											
<b>Project #:</b> 701162.114.01 <b>Project Owner:</b>						<b>State:</b>						<b>Zip:</b>					
<b>Project Location:</b> EDDY						<b>Phone #:</b>											
<b>Sample Name:</b> Iron Cans						<b>Fax #:</b>											
<b>FOR LAB USE ONLY</b>																	
<b>Lab I.D.</b>  <b>Sample I.D.</b>						(G)RAB OR (C)OMP.						<b>DATE</b>					
						# CONTAINERS											
						<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :						<b>SAMPLING</b>					
H20633						PH   0.1'						2:17					
1						BH   2'						12:15					
2						BH   3'						12:16					
3						BH   4						12:17					
4						BH   5						12:18					
5						BH   6						12:30					
6						BH   7						12:31					
7												12:32					

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<b>Relinquished By:</b>				<b>Date:</b> 2-17-22				<b>Received By:</b>				<b>Date:</b> 2-17-22			
<b>Time:</b> 1610															
<b>Date:</b>															
<b>Time:</b>															
<b>Delivered By:</b> (Circle One)				<b>Observed Temp. °C</b> 5.9				<b>Corrected Temp. °C</b> 5.4				<b>Sample Condition</b>			
<b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/>				<b>YES</b> <input checked="" type="checkbox"/> <b>NO</b> <input type="checkbox"/>				<b>Checked By:</b> (Initials)				<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
<b>Sampler - UPS - Bus - Other:</b>												<b>Bacteria (only)</b> Sample Condition			
<b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/>				<b>YES</b> <input type="checkbox"/> <b>NO</b> <input type="checkbox"/>								<b>Observed Temp. °C</b>			
<b>Correction Factor</b> -0.5°C												<b>Corrected Temp. °C</b>			
<b>REMARKS:</b>															
All Results are emailed. Please provide Email address:															
<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:															





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> TAJLOW CPC		<b>P.O. #:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> R. Pous		<b>Company:</b>					
<b>Address:</b> 504 Tulos		<b>Attn:</b>					
<b>City:</b> Antsir	<b>State:</b>	<b>Zip:</b>	<b>Address:</b>				
<b>Phone #:</b> 5157744-8060	<b>Fax #:</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>			
<b>Project #:</b> 701162.114.01		<b>Project Owner:</b>					
<b>Project Name:</b> Civa et St Hec		<b>Phone #:</b>					
<b>Project Location:</b> EDRY		<b>Fax #:</b>					
<b>Sampler Name:</b> Jany Carus							

FOR LAB USE ONLY			MATRIX		PRESERV.	SAMPLING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTOP	TPH
H20633	R2J2 1'		1										2/17	11:10			
8	R2J2 2'		1											11:10			
9	R2J2 3'		1											11:13			
10	R2J2 4'		1											11:14			
11	R2J2 5'		1											11:15			
12	R2J2 6'		1											11:16			
13	R2J2 7'		1											11:17			
14																	

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<b>Relinquished By:</b> [Signature]	<b>Date:</b> 2/17/22	<b>Received By:</b> [Signature]	<b>Date:</b> 2/17/22
<b>Relinquished By:</b> [Signature]	<b>Date:</b> 2/17/22	<b>Received By:</b> [Signature]	<b>Date:</b> 2/17/22

<b>Delivered By:</b> (Circle One)	<b>Observed Temp. °C</b>	<b>Corrected Temp. °C</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b> (Initials)	<b>Turnaround Time:</b>	<b>Standard</b>	<b>Bacteria (only)</b>	<b>Sample Condition</b>
<b>Sampler - UPS - Bus - Other:</b>	5.9	5.4	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	[Signature]		<input checked="" type="checkbox"/> Rush	<input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C

**REMARKS:** Results: R2J2 1' - BTOP, TPH; R2J2 2' - BTOP, TPH; R2J2 3' - BTOP, TPH; R2J2 4' - BTOP, TPH; R2J2 5' - BTOP, TPH; R2J2 6' - BTOP, TPH; R2J2 7' - BTOP, TPH.



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1997-1

Laboratory Sample Delivery Group: Eddy Co NM  
Client Project/Site: State 14 Com 2 - 701162.114.01

For:

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

Attn: Rebecca Pons

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

Authorized for release by:  
2/28/2022 4:53:22 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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

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

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Laboratory Job ID: 890-1997-1  
SDG: Eddy Co NM

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

## Case Narrative

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

---

**Job ID: 890-1997-1**

---

**Laboratory: Eurofins Carlsbad**

---

**Narrative**

---

**Job Narrative**  
**890-1997-1**

**Receipt**

The samples were received on 2/22/2022 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.2°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20208 and analytical batch 880-20289 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-11518-A-21-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-11518-A-21-E MS) and (880-11518-A-21-F MSD). Evidence of matrix interferences is not obvious.

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

**GC Semi VOA**

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

**HPLC/IC**

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



## Client Sample Results

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

Client Sample ID: TT-1

Lab Sample ID: 890-1997-1

Date Collected: 02/22/22 11:15

Matrix: Solid

Date Received: 02/22/22 13:40

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
Ethylbenzene	0.00149	J	0.00200	0.000564	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
o-Xylene	0.00130	J	0.00200	0.000343	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
Xylenes, Total	0.00130	J	0.00399	0.00101	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
Methyl tert-butyl ether	<0.00163	U	0.00998	0.00163	mg/Kg		02/24/22 11:00	02/28/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130				02/24/22 11:00	02/28/22 02:03	1
4-Bromofluorobenzene (Surr)	110		70 - 130				02/24/22 11:00	02/28/22 02:03	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00279	J	0.00399	0.00101	mg/Kg			02/28/22 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	154		50.0	15.0	mg/Kg			02/25/22 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 18:57	1
Diesel Range Organics (Over C10-C28)	154		50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 18:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/23/22 11:20	02/24/22 18:57	1
o-Terphenyl	83		70 - 130				02/23/22 11:20	02/24/22 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	766		5.02	0.862	mg/Kg			02/25/22 21:42	1

Client Sample ID: TT-SW

Lab Sample ID: 890-1997-2

Date Collected: 02/22/22 12:00

Matrix: Solid

Date Received: 02/22/22 13:40

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		02/24/22 11:00	02/28/22 02:23	1
Methyl tert-butyl ether	<0.00161	U	0.00990	0.00161	mg/Kg		02/24/22 11:00	02/28/22 02:23	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

Client Sample ID: TT-SW

Lab Sample ID: 890-1997-2

Date Collected: 02/22/22 12:00

Matrix: Solid

Date Received: 02/22/22 13:40

Sample Depth: 8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/24/22 11:00	02/28/22 02:23	1
4-Bromofluorobenzene (Surr)	104		70 - 130	02/24/22 11:00	02/28/22 02:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg	-		02/28/22 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		02/25/22 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	02/23/22 11:20	02/24/22 19:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	02/23/22 11:20	02/24/22 19:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	02/23/22 11:20	02/24/22 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	02/23/22 11:20	02/24/22 19:17	1
o-Terphenyl	73		70 - 130	02/23/22 11:20	02/24/22 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.99	0.857	mg/Kg	-		02/25/22 21:48	1

Eurofins Carlsbad

# Surrogate Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DFBZ1 (70-130)	BFB1 (70-130)
890-1997-1	TT-1	96	110
890-1997-2	TT-SW	98	104
LCS 880-20208/1-A	Lab Control Sample	101	100
LCSD 880-20208/2-A	Lab Control Sample Dup	100	101
MB 880-20208/5-A	Method Blank	94	101
MB 880-20241/5-A	Method Blank	94	99
<b>Surrogate Legend</b>			
DFBZ = 1,4-Difluorobenzene (Surr)			
BFB = 4-Bromofluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1997-1	TT-1	81	83
890-1997-2	TT-SW	76	73
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-20142/2-A	Lab Control Sample	110	123
LCSD 880-20142/3-A	Lab Control Sample Dup	102	101
MB 880-20142/1-A	Method Blank	96	100
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

## QC Sample Results

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-20208/5-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/24/22 11:00	02/27/22 18:29	1
Methyl tert-butyl ether	<0.00163	U	0.0100	0.00163	mg/Kg		02/24/22 11:00	02/27/22 18:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	02/24/22 11:00	02/27/22 18:29	1
4-Bromofluorobenzene (Surr)	101		70 - 130	02/24/22 11:00	02/27/22 18:29	1

Lab Sample ID: LCS 880-20208/1-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1079		mg/Kg		108	70 - 130
Toluene	0.100	0.1058		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2188		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130
Methyl tert-butyl ether	0.500	0.4591		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-20208/2-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20208

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1021		mg/Kg		102	70 - 130	6	35
Toluene	0.100	0.1001		mg/Kg		100	70 - 130	5	35
Ethylbenzene	0.100	0.09987		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1015		mg/Kg		102	70 - 130	4	35
Methyl tert-butyl ether	0.500	0.4363		mg/Kg		87	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Eurofins Carlsbad

## QC Sample Results

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-20241/5-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Methyl tert-butyl ether	<0.00163	U	0.0100	0.00163	mg/Kg		02/25/22 16:00	02/27/22 07:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	02/25/22 16:00	02/27/22 07:06	1
4-Bromofluorobenzene (Surr)	99		70 - 130	02/25/22 16:00	02/27/22 07:06	1

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

Lab Sample ID: MB 880-20142/1-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 11:50	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 11:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/23/22 11:20	02/24/22 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/23/22 11:20	02/24/22 11:50	1
o-Terphenyl	100		70 - 130	02/23/22 11:20	02/24/22 11:50	1

Lab Sample ID: LCS 880-20142/2-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	974.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	123		70 - 130

Eurofins Carlsbad



## QC Sample Results

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-20142/3-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.9		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	101		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20129/1-A

Matrix: Solid

Analysis Batch: 20336

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			02/25/22 19:10	1

Lab Sample ID: LCS 880-20129/2-A

Matrix: Solid

Analysis Batch: 20336

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	258.8		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-20129/3-A

Matrix: Solid

Analysis Batch: 20336

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.2		mg/Kg		106	90 - 110	2	20

Eurofins Carlsbad

## QC Association Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

## GC VOA

## Prep Batch: 20208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	5035	
890-1997-2	TT-SW	Total/NA	Solid	5035	
MB 880-20208/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20208/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20208/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Prep Batch: 20241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20241/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	8021B	20208
890-1997-2	TT-SW	Total/NA	Solid	8021B	20208
MB 880-20208/5-A	Method Blank	Total/NA	Solid	8021B	20208
MB 880-20241/5-A	Method Blank	Total/NA	Solid	8021B	20241
LCS 880-20208/1-A	Lab Control Sample	Total/NA	Solid	8021B	20208
LCSD 880-20208/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20208

## Analysis Batch: 20485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	Total BTEX	
890-1997-2	TT-SW	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 20142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	8015NM Prep	
890-1997-2	TT-SW	Total/NA	Solid	8015NM Prep	
MB 880-20142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 20195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	8015B NM	20142
890-1997-2	TT-SW	Total/NA	Solid	8015B NM	20142
MB 880-20142/1-A	Method Blank	Total/NA	Solid	8015B NM	20142
LCS 880-20142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20142
LCSD 880-20142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20142

## Analysis Batch: 20338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Total/NA	Solid	8015 NM	
890-1997-2	TT-SW	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 20129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Soluble	Solid	DI Leach	

Eurofins Carlsbad

## QC Association Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

## HPLC/IC (Continued)

## Leach Batch: 20129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-2	TT-SW	Soluble	Solid	DI Leach	
MB 880-20129/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20129/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20129/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 20336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1997-1	TT-1	Soluble	Solid	300.0	20129
890-1997-2	TT-SW	Soluble	Solid	300.0	20129
MB 880-20129/1-A	Method Blank	Soluble	Solid	300.0	20129
LCS 880-20129/2-A	Lab Control Sample	Soluble	Solid	300.0	20129
LCSD 880-20129/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20129

## Lab Chronicle

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

Client Sample ID: TT-1

Lab Sample ID: 890-1997-1

Date Collected: 02/22/22 11:15

Matrix: Solid

Date Received: 02/22/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20208	02/24/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/28/22 02:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20485	02/28/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20338	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20142	02/23/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/24/22 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	20129	02/23/22 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			20336	02/25/22 21:42	CH	XEN MID

Client Sample ID: TT-SW

Lab Sample ID: 890-1997-2

Date Collected: 02/22/22 12:00

Matrix: Solid

Date Received: 02/22/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20208	02/24/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/28/22 02:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20485	02/28/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20338	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20142	02/23/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/24/22 19:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20129	02/23/22 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			20336	02/25/22 21:48	CH	XEN MID

## Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



## Method Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Talon/LPE  
Project/Site: State 14 Com 2 - 701162.114.01

Job ID: 890-1997-1  
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1997-1	TT-1	Solid	02/22/22 11:15	02/22/22 13:40	8
890-1997-2	TT-SW	Solid	02/22/22 12:00	02/22/22 13:40	8

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



## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

**Work Order No:**

www.xenco.com Page \_\_\_\_ of \_\_\_\_

Project Manager:	R. Pons	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575-746-8768	Email:	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaBT <input type="checkbox"/> Other:	

<b>Project Name:</b>	State 14 Com 2	<b>Turn Around</b>		<b>Pres. Code</b>		<b>ANALYSIS REQUEST</b>						<b>Preservative Codes</b>			
<b>Project Number:</b>	701168-117,01	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush												None: NO	DI Water: H <sub>2</sub> O
<b>Project Location:</b>	Eddy County, NH	<b>Due Date:</b>												Cool: Cool	MeOH: Me
<b>Sampler's Name:</b>	S. Carnes	TAT starts the day received by the lab, if received by 4:30pm												HCL: HC	HNO <sub>3</sub> : HN
<b>PO #:</b>														H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
<b>SAMPLE RECEIPT</b>		<b>Temp Blank:</b>	(Yes) No	(Yes) No	<b>Wet Ice:</b>	(Yes) No								H <sub>3</sub> PO <sub>4</sub> : HP	
<b>Samples Received Intact:</b>	(Yes) No	<b>Thermometer ID:</b>												NaHSO <sub>4</sub> : NABIS	
<b>Cooler Custody Seals:</b>	Yes No (N/A)	<b>Correction Factor:</b>												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
<b>Sample Custody Seals:</b>	Yes No (N/A)	<b>Temperature Reading:</b>												Zn Acetate+NaOH: Zn	
<b>Total Containers:</b>		<b>Corrected Temperature:</b>												NaOH+Ascorbic Acid: SASC	

[illegible]

Total	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 James Lee	Clue Corp	2-22-22 1340			
2					
3					
4					
5					
6					

Revised Date 08/25/2020 Rev. 2020

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1997-1

SDG Number: Eddy Co NM

**Login Number: 1997****List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

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

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1997-1

SDG Number: Eddy Co NM

**Login Number: 1997****List Number: 2****Creator: Teel, Brianna****List Source: Eurofins Midland****List Creation: 02/23/22 11:30 AM**

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



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

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April 07, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STATE 14 COM

Enclosed are the results of analyses for samples received by the laboratory on 04/04/22 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	04/04/2022	Sampling Date:	04/02/2022
Reported:	04/07/2022	Sampling Type:	Soil
Project Name:	STATE 14 COM	Sampling Condition:	Cool & Intact
Project Number:	701162.11.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: TT - 1 @ 9' (H221325-01)**

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2022	ND	2.17	109	2.00	7.52		
Toluene*	<0.050	0.050	04/05/2022	ND	2.16	108	2.00	8.38		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.14	107	2.00	7.55		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.63	111	6.00	7.31		
Total BTEX	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/05/2022	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	04/05/2022	ND	178	89.2	200	0.584	
DRO >C10-C28*	<10.0	10.0	04/05/2022	ND	202	101	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 68.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 66.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager:

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

Project #: 70112.11.01

Project Name: STATE 14 Com

Project Location: EDDY

Sampler Name: A. PACHEA

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H201385

TT-1091

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

4/12 8:00

CL  
TPH  
BTEX

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Matrix

Preserv

Sampling

Sample

Condition

Intact

Yes

No

Checked By:

Initials

8/2

Remarks:

Results @ Talon LPE.com

2 Day Rush!

4/14/22

Relinquished By:

Time:

Date:

Received By:

Time:

Date:

Delivered By: (Circle One) - 2.8% C.O. 5%  
Sampler - UPS - Bus - Other: - 3.3% #113

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

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

COMMENTS

Action 98581

## COMMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 98581
	Action Type: [C-141] Release Corrective Action (C-141)

## COMMENTS

Created By	Comment	Comment Date
jharimon	Initial to Closure C-141 Documents submitted. I did not see any specific documents showing justification for the amount spilled reported.	4/14/2022

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 98581

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 98581
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved. Variance for a liner approved.	4/26/2022