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## **Remediation and Closure Report**

Hawk 9 F Federal #7 Transfer line  
API #30-015-33182 \* 2RP-4909

### **Prepared For:**

Lime Rock Resources  
1111 Bagby Street Suite 4600  
Houston, TX 77002

### **Prepared By:**

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

**February 15, 2019**

Mike Bratcher  
NMOCD District 2  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Remediation and Closure Report**  
Hawk 9 F Federal #7 Transfer Line  
API #30-015-33182 \* 2RP-4909

Dear Mr. Bratcher,

Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our soil assessment and remediation activities consisted of the following.

### Site Information

The Hawk 9 F Federal #7 Transfer Line is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter F, Section 09, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7659732 North and -104.2865372 West.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land and Gypsum land-Cottonwood complex with 0 to 3 percent slopes. The local surface and shallow geology are middle to lower Pleistocene in age and is comprised of alluvial deposits. Drainage courses in this area are normally dry.

### Ground Water and Site Ranking

The New Mexico Office of the State Engineer database indicates that the average depth to groundwater is 50-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

Depth to groundwater	50-99'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of 10, the New Mexico Oil and Conservation Division (NMOCD) Recommended Remedial Action Levels (RRAL) at the of this release were 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH. The NMOCD recommended guidelines for total chlorides were 600 mg/kg.

## Incident Description and Initial Remedial Actions

On July 23, 2018, the poly transfer line from the Hawk 9 battery ruptured resulting in the release of 35 barrels of produced water along the lease road pooling on the north and east sides of the Hawk 9 #7 location. The transfer line was isolated, repairs were made. No fluids were recovered. A site plan is presented in [Appendix I](#).

On July 25, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to depths of which hard rock refusal was encountered. The analytical results are presented in the following data table.

## Laboratory Results

See [Appendix III](#) for a complete report of laboratory results.

### July 25, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
<b>BG-1</b>	0	--	ND	--	--	--	--
R	0.5	--	36	--	--	--	--
<b>BG-2</b>	0	--	38	--	--	--	--
R	0.5	-	57	-	-	-	-
<b>BG-3</b>	0	--	ND	--	--	--	--
<b>BG-4</b>	0	--	78	--	--	--	--
R	0.5	--	ND	--	--	--	--
<b>BG-5</b>	0	--	ND	--	--	--	--
R	0.5	--	ND	--	--	--	--
<b>S-1</b>	0	ND	9800	5000	2200	ND	7200
	1	--	5100	--	--	--	--
R	1.5	--	3700	--	--	--	--
<b>S-2</b>	0	ND	10000	ND	ND	ND	ND
R	1	--	430	--	--	--	--



Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-3	0	ND	34000	81	81	ND	162
R	0.5	--	11000	--	--	--	--
S-4	0	ND	43000	19	ND	5.8	24.8
	1	--	330	--	--	--	--
R	2	--	360	--	--	--	--
S-5	0	ND	21000	ND	ND	ND	ND
	1	--	1300	--	--	--	--
	2	--	260	--	--	--	--
R	3	--	45	--	--	--	--
S-6	0	ND	30000	ND	ND	ND	ND
	1	--	5600	--	--	--	--
	2	--	360	--	--	--	--
	3	--	480	--	--	--	--
S-7	0	ND	37000	ND	ND	ND	ND
R	1	--	2200	--	--	--	--

(--) Analyte Not Tested, (ND) Analyte Not Detected, (R) Refusal with Hand Auger, (BG) Background Samples

On August 23, 2018, Talon personnel returned to the location to conduct further vertical and horizontal delineation with the assistance of a backhoe. The analytical results are presented in the following data table.

#### August 23, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-1	1	ND	11800	ND	ND	ND	ND
R	2	ND	2200	ND	ND	ND	ND
S-3	1	--	12800	--	--	--	--
	2	--	496	--	--	--	--
	4	--	144	--	--	--	--
	6	--	464	--	--	--	--
	8	--	272	--	--	--	--
S-7	1	--	2160	--	--	--	--
	2	--	3480	--	--	--	--



Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-7	3	--	1090	--	--	--	--
	4	--	1040	--	--	--	--
R	5	--	720	--	--	--	--

(--) Analyte Not Tested, (ND) Analyte Not Detected, (R) Refusal with Backhoe

Based on the analytical results Talon proceeded with the excavation of the contaminated areas. Field titrations for total chlorides and analytical testing were continually utilized to guide the excavation activities. The analytical results are presented in the following data tables.

#### October 12, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-3	Bottom Composite	ND	2400	ND	ND	ND	ND
S-6	N. Sidewall	ND	6080	ND	ND	ND	ND
	S. Sidewall	ND	1220	ND	ND	ND	ND
S-7	N. Sidewall	ND	1040	ND	ND	ND	ND
	S. Sidewall	ND	1380	ND	ND	ND	ND
	W. Sidewall	ND	1500	ND	ND	ND	ND

(ND) Analyte Not Detected

#### October 17, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-3	Bottom	7200
	N. Sidewall	1230
	S. Sidewall	6080
	E. Sidewall	1260
	W. Sidewall	4400
S-6	Bottom	4480
	N. Sidewall	1410
	S. Sidewall	5120
S-6	E. Sidewall	3440
	W. Sidewall	1330
S-7	Bottom	3120

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-7	N. Sidewall	1570
	S. Sidewall	240
	E. Sidewall	176
	W. Sidewall	320

## October 19, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-6	N. Sidewall	800
	S. Sidewall	384
S-7	W. Sidewall	320
	N. Sidewall	1640

## October 30, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-6	N. Sidewall	320
S-7	N. Sidewall	208

Talon continued to delineate and excavate vertically and horizontally as best as possible due to the rocky terrain and presence of hard rock refusal.

## October 31, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-3	1.5' Bottom	32
	N. Sidewall	96
	S. Sidewall	96
	E. Sidewall	128
	W. Sidewall	128
S-6	2' Bottom	96
	E. Sidewall	112
	W. Sidewall	32
S-7	4' Bottom	16

**Remedial Actions Taken:**

- The impacted area in the vicinity of S-1 and S-2 along the lease road was excavated to a depth of 2.0 feet deep.
- The impacted area in the vicinity of S-3 and S-4 pooling areas were excavated to a depth of 1.5 to 2.0-feet.
- The impacted area in the vicinity of S-5 to S-6 was excavated to a depth of 2.0 feet deep.
- The impacted area in the vicinity of S-7 was excavated to a depth of 4.0 feet deep until the excavation was met with hard rock refusal with a backhoe.
- Unfortunately, excavation depths were met with hard rock refusal throughout the remediation process. Therefore excavation was completed to maximum depths possible. [Appendix IV](#) provides photographic documentation of this process.
- All of the excavated material yards was transported to R360 and Lea Land, LLC, both NMOCD approved solid waste disposal facilities.
- The excavated areas were backfilled with locally obtained topsoil, machine compacted and contoured to match the surrounding terrain.
- The site was then seeded with BLM #1 seed mixture in accordance with the soil survey from the United States Department of Agriculture, Natural Resources Conservation Services ([Appendix II](#)).
- A Final C-141 Form is attached in ([Appendix III](#)).



## Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this site and that closure with regards to this incident be granted.

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

Respectfully submitted,

TALON/LPE



Chris Jones  
Project Manager



David J. Adkins  
District Manager

### Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data & Soil Survey
- Appendix III Final C-141
- Appendix IV Photographs
- Appendix V Laboratory Results

## APPENDIX I

### SITE PLAN



# Hawk 9 #7 Transfer Line

Lime Rock Resources  
Eddy County, NM  
APL30-015-33185  
2RP-4909

**Legend**

Samples

Spill Path



Google Earth



## 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	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 03714</a>		RA	CH	4	4	2	08	18S	27E	566212	3625253*	711	381		
<a href="#">RA 03917</a>		RA	LE	4	1	2	10	18S	27E	569019	3625660*	2125	130	50	80

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count:2

UTM NAD83 Radius Search (in meters):

Easting (X): 566915

Northing (Y): 3625360

Radius: 3000

\*UTM location was derived from PLSS - see Help

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

2/16/19 2:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## Eddy Area, New Mexico

### GA—Gypsum land

#### Map Unit Setting

*National map unit symbol:* 1w4f

*Elevation:* 1,250 to 5,000 feet

*Mean annual precipitation:* 10 to 25 inches

*Mean annual air temperature:* 57 to 66 degrees F

*Frost-free period:* 190 to 225 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Gypsum land:* 100 percent

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

#### Description of Gypsum Land

##### Setting

*Landform:* Ridges, hills, plains

*Landform position (two-dimensional):* Toeslope, shoulder, footslope, backslope

*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Residuum weathered from gypsum

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8s

*Hydric soil rating:* No

#### Minor Components

##### Reeves

*Percent of map unit:*

*Ecological site:* Salty Bottomland (R042XC033NM)

*Hydric soil rating:* No

##### Cottonwood

*Percent of map unit:*

*Ecological site:* Salty Bottomland (R042XC033NM)

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 13, Sep 9, 2017



## APPENDIX III

### FINAL C-141

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised April 3, 2017

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Lime Rock Resources II-A, L.P.	Contact	Mike Barrett
Address	1111 Bagby St. Ste 4600, Houston, TX 77002	Telephone No.	575-365-9724
Facility Name	Hawk 9 F Federal #7	Facility Type	

Surface Owner	Private	Mineral Owner	State	API No.	30-015-29026
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	09	18S	27E	1500	N	1650	W	Eddy

Latitude 32.7653732 Longitude -104.2865372 NAD83

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	35 BBLS PW	Volume Recovered	0
Source of Release	Poly Transfer Line	Date and Hour of Occurrence	7-22-18 14:30	Date and Hour of Discovery	7-23-18 14:30
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD via verbal notice		
By Whom?	David Adkins	Date and Hour	7-23-18 15:40		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			


If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\* The poly transfer line from the Hawk 9 Battery split resulting in a release of 35 barrels of produced water down the road and on the side of the Hawk 9 #7 location. The line was isolated and repairs were made to the poly line. No fluids were recovered. Talon mobilized personnel and equipment to the location and conducted remedial work for the removal of the contaminated areas.

Describe Area Affected and Cleanup Action Taken.\* The spill travelled down the road app 150'. It then went off the road and travelled app another 300' on the north and east sides of the location. The flow path is app 5-15' wide. A backhoe was used to dig out the contaminated soil as best as practicable, with refusal being met along the excavation. Confirmation samples were taken to help guide the cleanup process. The excavated soil was transported to a NMOCD approved disposal facility.

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

#### OIL CONSERVATION DIVISION

Signature:			
Printed Name: Mike Barrett	Approved by Environmental Specialist: Jocelyn Harimon		
Title: Production Superintendent	Approval Date: 06/27/2022	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11-5-18	Phone: 575-365-9724		

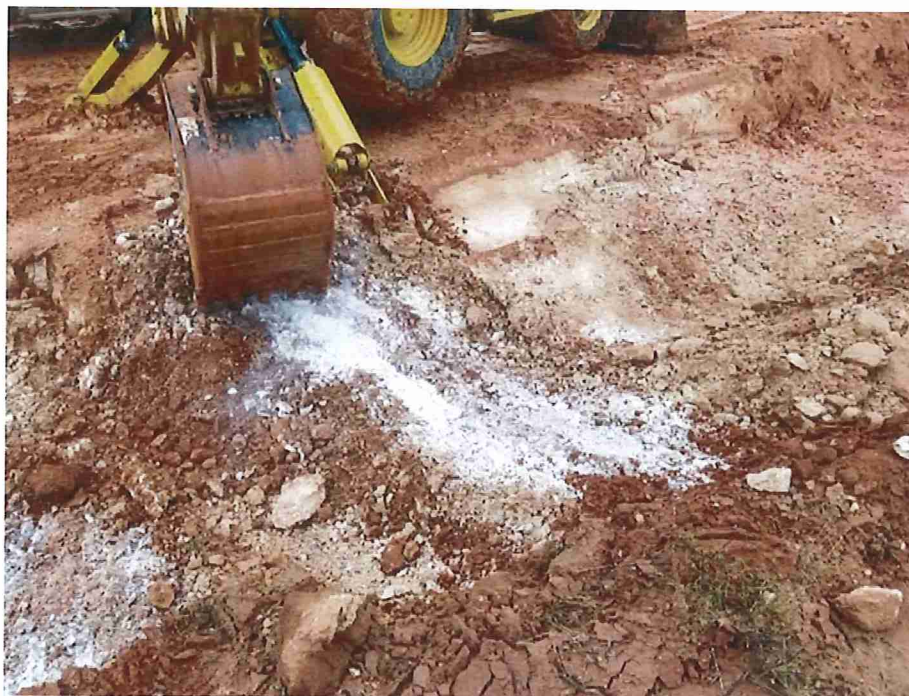
\* Attach Additional Sheets If Necessary

## APPENDIX IV

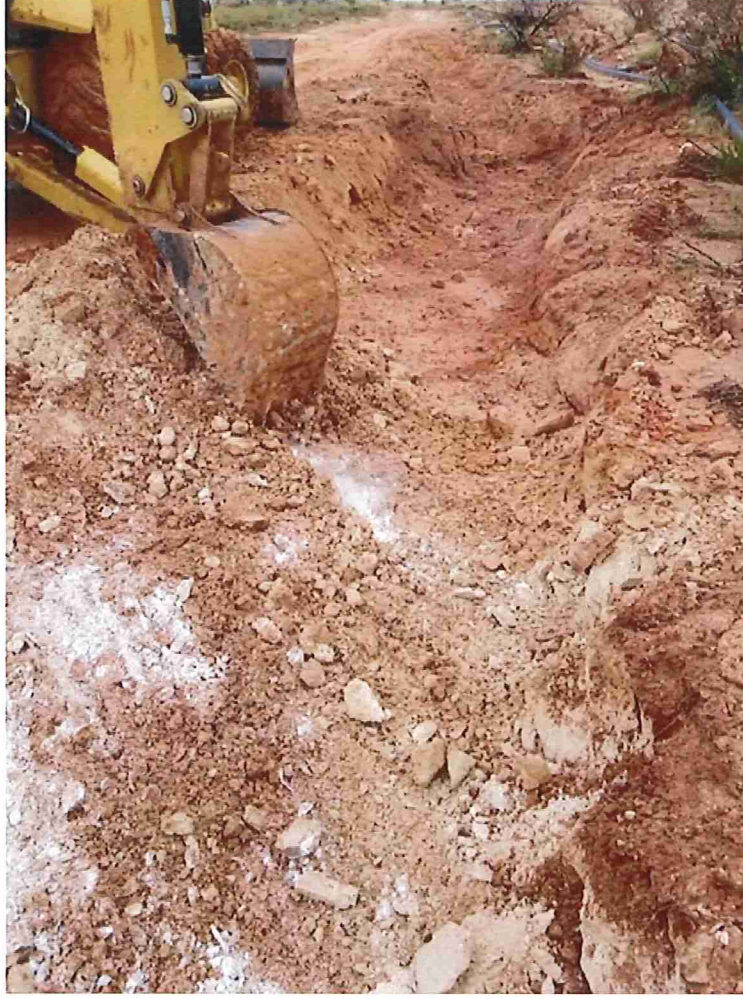
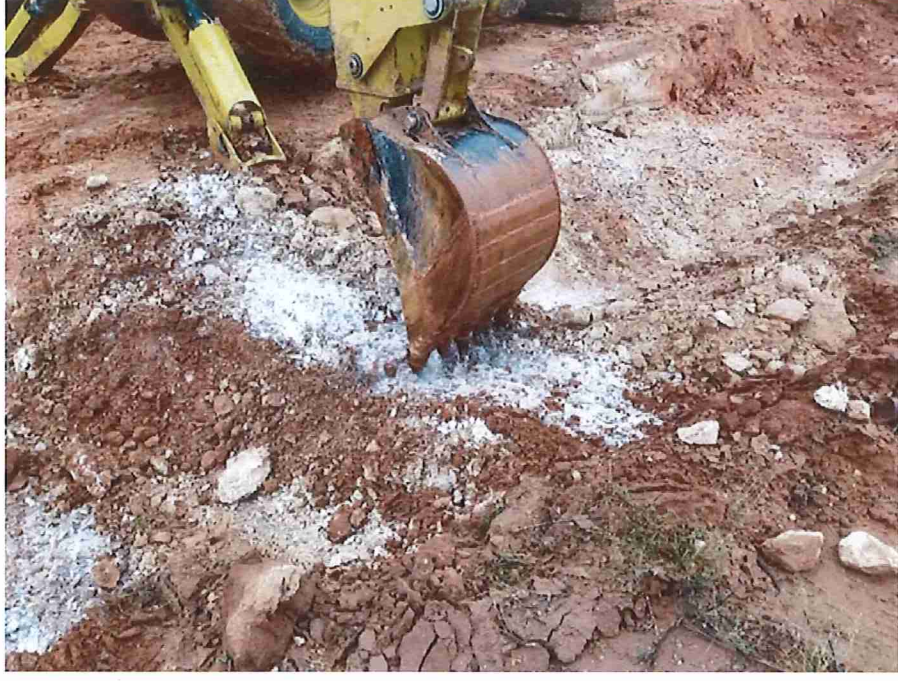
## PHOTOGRAPHS



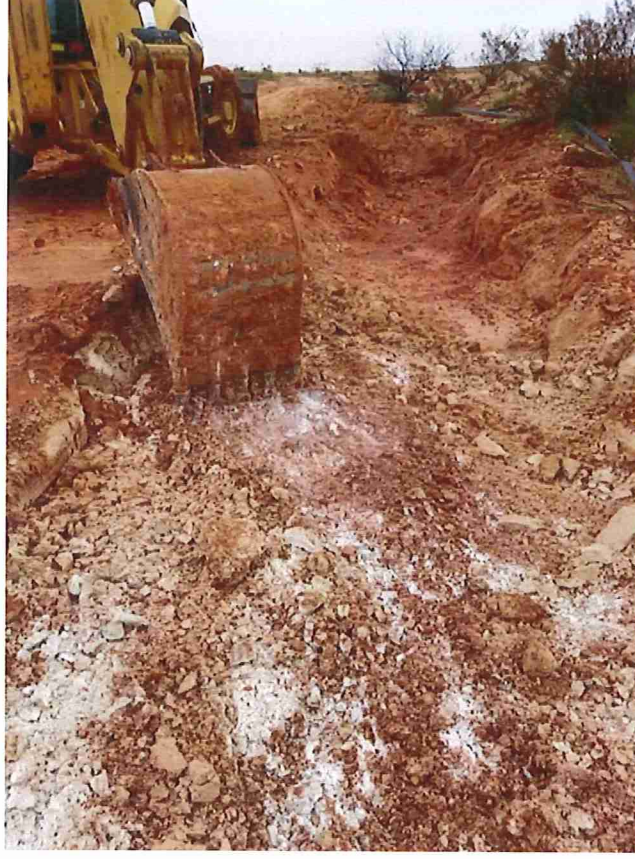
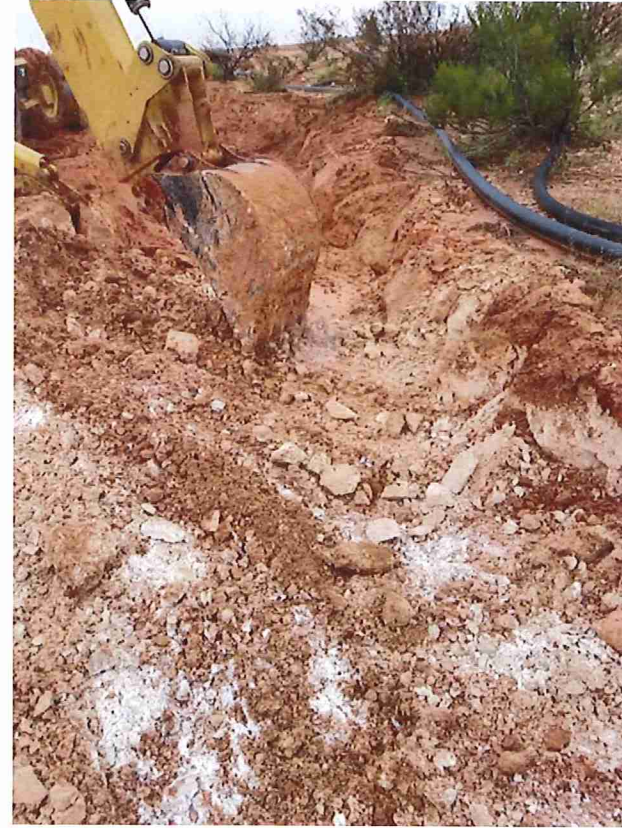
## Refusal











## APPENDIX V

### LABORATORY RESULTS



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

February 13, 2019

Chris Jones

Talon Artesia

408 West Texas Ave

Artesia, NM 88210

TEL: (806) 467-0607

FAX (806) 467-0622

RE: Hawk 9 #7 Transfer Line

OrderNo.: 1807E64

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 33 sample(s) on 7/26/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 03, 2018.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

**Lab Order:** 1807E64

**Lab ID:** 1807E64-001 **Collection Date:** 7/25/2018 7:00:00 AM  
**Client Sample ID:** BG-1 0' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	ND	30		mg/Kg	20	8/1/2018 12:47:11 AM	39502

**Lab ID:** 1807E64-002 **Collection Date:** 7/25/2018 7:02:00 AM  
**Client Sample ID:** BG-1 0.5' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	36	30		mg/Kg	20	8/1/2018 12:59:35 AM	39502

**Lab ID:** 1807E64-003 **Collection Date:** 7/25/2018 7:04:00 AM  
**Client Sample ID:** BG-2 0' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	38	30		mg/Kg	20	8/1/2018 1:12:00 AM	39502

**Lab ID:** 1807E64-004 **Collection Date:** 7/25/2018 7:06:00 AM  
**Client Sample ID:** BG-2 0.5' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	57	30		mg/Kg	20	8/1/2018 1:24:25 AM	39502

**Lab ID:** 1807E64-005 **Collection Date:** 7/25/2018 7:08:00 AM  
**Client Sample ID:** BG-3 0' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	ND	30		mg/Kg	20	8/1/2018 1:36:49 AM	39502

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	Page 1 of 14
	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 Detection Limit	

## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

**Lab Order:** 1807E64

**Lab ID:** 1807E64-007 **Collection Date:** 7/25/2018 7:12:00 AM  
**Client Sample ID:** BG-4 0' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	78	30		mg/Kg	20	8/1/2018 2:01:37 AM	39502

**Lab ID:** 1807E64-008 **Collection Date:** 7/25/2018 7:14:00 AM  
**Client Sample ID:** BG-4 0.5' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	ND	30		mg/Kg	20	8/1/2018 2:38:52 AM	39502

**Lab ID:** 1807E64-009 **Collection Date:** 7/25/2018 7:16:00 AM  
**Client Sample ID:** BG-5 0" **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	ND	30		mg/Kg	20	8/1/2018 2:51:16 AM	39502

**Lab ID:** 1807E64-010 **Collection Date:** 7/25/2018 7:18:00 AM  
**Client Sample ID:** BG-5 0.5' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: MRA							
Chloride	ND	30		mg/Kg	20	8/1/2018 3:03:40 AM	39502

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	Page 2 of 14
	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 Detection Limit	

## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

**Lab Order:** 1807E64**Lab ID:** 1807E64-013**Collection Date:** 7/25/2018 7:24:00 AM**Client Sample ID:** S-1 0'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	9800	300		mg/Kg	200	8/2/2018 1:33:02 AM	39502
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	5000	100		mg/Kg	10	8/1/2018 3:01:27 PM	39509
Motor Oil Range Organics (MRO)	2200	500		mg/Kg	10	8/1/2018 3:01:27 PM	39509
Surr: DNOP	0	50.6-138	S	%Rec	10	8/1/2018 3:01:27 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/1/2018 11:08:18 AM	39506
Surr: BFB	91.4	15-316		%Rec	1	8/1/2018 11:08:18 AM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/1/2018 11:08:18 AM	39506
Toluene	ND	0.046		mg/Kg	1	8/1/2018 11:08:18 AM	39506
Ethylbenzene	ND	0.046		mg/Kg	1	8/1/2018 11:08:18 AM	39506
Xylenes, Total	ND	0.092		mg/Kg	1	8/1/2018 11:08:18 AM	39506
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/1/2018 11:08:18 AM	39506

**Lab ID:** 1807E64-014**Collection Date:** 7/25/2018 7:26:00 AM**Client Sample ID:** S-1 1'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	5100	300		mg/Kg	200	8/2/2018 1:45:26 AM	39516

**Lab ID:** 1807E64-015**Collection Date:** 7/25/2018 7:28:00 AM**Client Sample ID:** S-1 1.5'R**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	3700	150		mg/Kg	100	8/2/2018 2:22:40 AM	39516

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 Detection Limit

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## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
 Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-016

Collection Date: 7/25/2018 7:30:00 AM

Client Sample ID: S-2 0'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	10000	750		mg/Kg	500	8/2/2018 2:35:04 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/1/2018 4:52:25 PM	39509
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/1/2018 4:52:25 PM	39509
Surr: DNOP	76.2	50.6-138		%Rec	1	8/1/2018 4:52:25 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/1/2018 12:42:03 PM	39506
Surr: BFB	96.6	15-316		%Rec	1	8/1/2018 12:42:03 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/1/2018 12:42:03 PM	39506
Toluene	ND	0.047		mg/Kg	1	8/1/2018 12:42:03 PM	39506
Ethylbenzene	ND	0.047		mg/Kg	1	8/1/2018 12:42:03 PM	39506
Xylenes, Total	ND	0.094		mg/Kg	1	8/1/2018 12:42:03 PM	39506
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/1/2018 12:42:03 PM	39506

Lab ID: 1807E64-017

Collection Date: 7/25/2018 7:32:00 AM

Client Sample ID: S-2 1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	430	30		mg/Kg	20	8/1/2018 9:25:11 AM	39516

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

Qualifiers:	* 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 Detection Limit

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## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
 Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-018

Collection Date: 7/25/2018 7:34:00 AM

Client Sample ID: S-3 0'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	34000	3000		mg/Kg	2E	8/2/2018 2:47:28 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: Irm
Diesel Range Organics (DRO)	81	9.7		mg/Kg	1	8/1/2018 5:36:34 PM	39509
Motor Oil Range Organics (MRO)	81	49		mg/Kg	1	8/1/2018 5:36:34 PM	39509
Surr: DNOP	99.4	50.6-138		%Rec	1	8/1/2018 5:36:34 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2018 1:05:28 PM	39506
Surr: BFB	97.7	15-316		%Rec	1	8/1/2018 1:05:28 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/1/2018 1:05:28 PM	39506
Toluene	ND	0.050		mg/Kg	1	8/1/2018 1:05:28 PM	39506
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2018 1:05:28 PM	39506
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2018 1:05:28 PM	39506
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/1/2018 1:05:28 PM	39506

Lab ID: 1807E64-019

Collection Date: 7/25/2018 7:36:00 AM

Client Sample ID: S-3 0.5'R

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	11000	750		mg/Kg	500	8/2/2018 2:59:52 AM	39516

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

Qualifiers:	*	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 Detection Limit

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## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-020

Collection Date: 7/25/2018 7:38:00 AM

Client Sample ID: S-4 0'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	43000	3000		mg/Kg	2E	8/2/2018 3:12:17 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	19	9.8		mg/Kg	1	8/1/2018 6:21:05 PM	39509
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/1/2018 6:21:05 PM	39509
Surr: DNOP	93.2	50.6-138		%Rec	1	8/1/2018 6:21:05 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	5.8	4.7		mg/Kg	1	8/1/2018 1:28:57 PM	39506
Surr: BFB	108	15-316		%Rec	1	8/1/2018 1:28:57 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/1/2018 1:28:57 PM	39506
Toluene	ND	0.047		mg/Kg	1	8/1/2018 1:28:57 PM	39506
Ethylbenzene	ND	0.047		mg/Kg	1	8/1/2018 1:28:57 PM	39506
Xylenes, Total	ND	0.094		mg/Kg	1	8/1/2018 1:28:57 PM	39506
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	8/1/2018 1:28:57 PM	39506

Lab ID: 1807E64-021

Collection Date: 7/25/2018 7:40:00 AM

Client Sample ID: S-4 1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	330	30		mg/Kg	20	7/31/2018 10:02:49 PM	39516

Lab ID: 1807E64-022

Collection Date: 7/25/2018 7:42:00 AM

Client Sample ID: S-4 2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	360	30		mg/Kg	20	7/31/2018 10:15:13 PM	39516

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

Qualifiers:	* 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 Detection Limit

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## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-023

Collection Date: 7/25/2018 7:44:00 AM

Client Sample ID: S-5 0'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	21000	1500		mg/Kg	1E	8/2/2018 3:24:41 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/1/2018 7:05:40 PM	39509
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/1/2018 7:05:40 PM	39509
Surr: DNOP	101	50.6-138		%Rec	1	8/1/2018 7:05:40 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2018 2:15:59 PM	39506
Surr: BFB	97.0	15-316		%Rec	1	8/1/2018 2:15:59 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/1/2018 2:15:59 PM	39506
Toluene	ND	0.048		mg/Kg	1	8/1/2018 2:15:59 PM	39506
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2018 2:15:59 PM	39506
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2018 2:15:59 PM	39506
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/1/2018 2:15:59 PM	39506

Lab ID: 1807E64-024

Collection Date: 7/25/2018 7:46:00 AM

Client Sample ID: S-5 1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	1300	75		mg/Kg	50	8/2/2018 3:37:05 AM	39516

Lab ID: 1807E64-025

Collection Date: 7/25/2018 7:48:00 AM

Client Sample ID: S-5 2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	260	30		mg/Kg	20	7/31/2018 10:52:28 PM	39516

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

Qualifiers:	* 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 Detection Limit

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## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-026 Collection Date: 7/25/2018 7:50:00 AM  
Client Sample ID: S-5 3' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: JRR							
Chloride	45	30		mg/Kg	20	7/31/2018 11:04:53 PM	39516

Lab ID: 1807E64-027 Collection Date: 7/25/2018 7:54:00 AM  
Client Sample ID: S-6 0' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: JRR							
Chloride	30000	3000		mg/Kg	2E	8/2/2018 3:49:30 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> Analyst: lrm							
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/1/2018 7:49:52 PM	39509
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/1/2018 7:49:52 PM	39509
Surr: DNOP	103	50.6-138		%Rec	1	8/1/2018 7:49:52 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b> Analyst: NSB							
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2018 2:39:32 PM	39506
Surr: BFB	93.4	15-316		%Rec	1	8/1/2018 2:39:32 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b> Analyst: NSB							
Benzene	ND	0.025		mg/Kg	1	8/1/2018 2:39:32 PM	39506
Toluene	ND	0.049		mg/Kg	1	8/1/2018 2:39:32 PM	39506
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2018 2:39:32 PM	39506
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2018 2:39:32 PM	39506
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/1/2018 2:39:32 PM	39506

Lab ID: 1807E64-028 Collection Date: 7/25/2018 7:56:00 AM  
Client Sample ID: S-6 1' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b> Analyst: JRR							
Chloride	5600	300		mg/Kg	200	8/2/2018 4:01:55 AM	39516

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 8 of 14
	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 Detection Limit	



Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-029 Collection Date: 7/25/2018 7:58:00 AM

Client Sample ID: S-6 2' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: JRR							
Chloride	360	30		mg/Kg	20	8/1/2018 12:06:56 AM	39516

Lab ID: 1807E64-030 Collection Date: 7/25/2018 8:00:00 AM

Client Sample ID: S-6 3' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: JRR							
Chloride	480	30		mg/Kg	20	8/1/2018 12:19:21 AM	39516

Lab ID: 1807E64-031 Collection Date: 7/25/2018 8:02:00 AM

Client Sample ID: S-6 4' Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: JRR							
Chloride	1200	75		mg/Kg	50	8/2/2018 4:14:19 AM	39516

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

Qualifiers:	* 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 Detection Limit

## Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: Hawk 9 #7 Transfer Line

Lab Order: 1807E64

Lab ID: 1807E64-032

Collection Date: 7/25/2018 8:04:00 AM

Client Sample ID: S-7 0'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	37000	3000		mg/Kg	2E	8/2/2018 4:51:32 AM	39516
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/1/2018 8:34:09 PM	39509
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/1/2018 8:34:09 PM	39509
Surr: DNOP	89.0	50.6-138		%Rec	1	8/1/2018 8:34:09 PM	39509
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/1/2018 3:26:39 PM	39506
Surr: BFB	90.6	15-316		%Rec	1	8/1/2018 3:26:39 PM	39506
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/1/2018 3:26:39 PM	39506
Toluene	ND	0.047		mg/Kg	1	8/1/2018 3:26:39 PM	39506
Ethylbenzene	ND	0.047		mg/Kg	1	8/1/2018 3:26:39 PM	39506
Xylenes, Total	ND	0.093		mg/Kg	1	8/1/2018 3:26:39 PM	39506
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/1/2018 3:26:39 PM	39506

Lab ID: 1807E64-033

Collection Date: 7/25/2018 8:06:00 AM

Client Sample ID: S-7 1'R

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	2200	75		mg/Kg	50	8/2/2018 5:03:56 AM	39516

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

Qualifiers:	* 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 Detection Limit

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

**Client:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

Sample ID	MB-39502	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	39502	RunNo:	53117					
Prep Date:	7/31/2018	Analysis Date:	7/31/2018	SeqNo:	1747523	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39502	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39502	RunNo:	53117					
Prep Date:	7/31/2018	Analysis Date:	7/31/2018	SeqNo:	1747524	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID	LCS-39516	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39516	RunNo:	53118					
Prep Date:	7/31/2018	Analysis Date:	7/31/2018	SeqNo:	1747608	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * 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 Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

**Client:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

Sample ID	MB-39509	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	39509	RunNo:	53063					
Prep Date:	7/31/2018	Analysis Date:	8/1/2018	SeqNo:	1747957	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	7.6		10.00		75.9	50.6	138			

Sample ID	LCS-39509	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	39509	RunNo:	53063					
Prep Date:	7/31/2018	Analysis Date:	8/1/2018	SeqNo:	1747958	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	70	130			
Surr: DNOP	3.7		5.000		73.3	50.6	138			

## Qualifiers:

- |   |   |
|---|---|
| * 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 Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

**Client:** Talon Artesia  
**Project:** Hawk 9 #7 Transfer Line

Sample ID	MB-39506	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	39506	RunNo:	53110					
Prep Date:	7/31/2018	Analysis Date:	8/1/2018	SeqNo:	1748282	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.5	15	316			

Sample ID	LCS-39506	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	39506	RunNo:	53110					
Prep Date:	7/31/2018	Analysis Date:	8/1/2018	SeqNo:	1748283	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	75.9	131			
Surr: BFB	1000		1000		103	15	316			

## Qualifiers:

- |   |   |
|---|---|
| * 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 Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

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## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

Client: Talon Artesia  
 Project: Hawk 9 #7 Transfer Line

Sample ID	MB-39506		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	39506		RunNo:	53110			
Prep Date:	7/31/2018		Analysis Date:	8/1/2018		SeqNo:	1748305		Units: mg/Kg	
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		105	80	120			

Sample ID	LCS-39506		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	39506		RunNo:	53110			
Prep Date:	7/31/2018		Analysis Date:	8/1/2018		SeqNo:	1748306		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	77.3	128			
Toluene	0.95	0.050	1.000	0	94.7	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	95.0	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

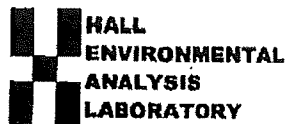
Sample ID	1807E64-013AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-1 0'		Batch ID:	39506		RunNo:	53110			
Prep Date:	7/31/2018		Analysis Date:	8/1/2018		SeqNo:	1748309		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9488	0.01253	112	68.5	133			
Toluene	1.2	0.047	0.9488	0.02857	121	75	130			
Ethylbenzene	1.1	0.047	0.9488	0.01631	118	79.4	128			
Xylenes, Total	3.5	0.095	2.846	0.04525	120	77.3	131			
Surr: 4-Bromofluorobenzene	0.99		0.9488		105	80	120			

Sample ID	1807E64-013AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-1 0'		Batch ID:	39506		RunNo:	53110			
Prep Date:	7/31/2018		Analysis Date:	8/1/2018		SeqNo:	1748310		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9862	0.01253	106	68.5	133	1.63	20	
Toluene	1.1	0.049	0.9862	0.02857	113	75	130	2.75	20	
Ethylbenzene	1.1	0.049	0.9862	0.01631	111	79.4	128	2.11	20	
Xylenes, Total	3.3	0.099	2.959	0.04525	112	77.3	131	3.23	20	
Surr: 4-Bromofluorobenzene	1.0		0.9862		101	80	120	0	0	

## Qualifiers:

- |   |   |
|---|---|
| * 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 Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

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

## Sample Log-In Check List

Client Name: TALON ARTESIA

Work Order Number: 1807E64

RcptNo: 1

Received By: Isalah Ortiz 7/26/2018 11:00:00 AM

Completed By: Michelle Garcia 7/27/2018 9:14:25 AM

Reviewed By: ENM 7/27/18

LB: *Lehman*

*I. Ortiz*

*Michelle Garcia*

### 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
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:  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified:	Date: _____	
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person	
Regarding:	_____	
Client Instructions:	_____	

16. Additional remarks:

### 17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	0.2	Good	Yes			

## Chain-of-Custody Record

Client: Tecoln LPE

Mailing Address: 408 West Texas Ave, Artesia, NM

Phone #: 575-746-8768

email or Fax#: jlaird@rabnipe.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: 5 day

Hawk 9 #7 Transfer Line

Project #: 701307.112.01

Project Manager:

C. Jones

Sampler: J. Laird

On/ice: ☒ Yes ☐ No

Sample Temperature: 12 - 10 (C) 0.2

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4/25/18	0700	soil	BG-1	Sec, 1	None	1807E6H
	0702		BG-1			001
	0704		BG-2			002
	0706		BG-2			003
	0708		BG-3			004
	0710		BG-3			005
	0712		BG-4			006
	0714		BG-4			007
	0716		BG-5			008
	0718		BG-5			009
	0720		BG-6			010
	0722		BG-6			011
						012

Date: 4/25/18 Time: 1310

Relinquished by: J. Laird

Date: 7/18/18 Time: 1310

Received by: J. Laird

Date: 7/26/18 Time: 1100

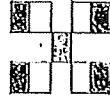
Received by: J. Jones

Remarks:

Removed Sample BG-6  
as per Chris Jones. 7/13/19

Removed Sample BG-3 0.5'  
as per Chris Jones. 7/13/19

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
										Chlorides (300)	

## Chain-of-Custody Record

Client: Telon LPEMailing Address: 408 WestTexas Ave, Artesia, NMPhone #: 575-746-8768email or Fax#: JLind@telonlpe.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Hwy 49 #7 Transfer Line

Project #:

701307.112.01

Project Manager:

C. JonesSampler: J. LindOn Ice: ☐ Yes ☐ NoSample Temperature: 23-106° 2.2

Container Type and #

Preservative Type

HEAL No. 1807ELH

Date

Time

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Sample Request ID

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## Chain-of-Custody Record

Client: Talon LPEMailing Address: 408 WestTexas Ave, Artesia, NMPhone #: 575-746-8768email or Fax#: jlind@talonlpe.com

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation

☐ NELAP☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Hawk 9 #7 Transfer Line

Project #:

701307.112.01

Project Manager:

C. JonesSampler: J. LindOn Ice: ☒ Yes ☐ NoSample Temperature: 12-10 (C) 0.2

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1807E04

025

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

August 30, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 08/27/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/27/2018  
Reported: 08/30/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 08/23/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 1' (H802398-01)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>11800</b>	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	90.3 %	41-142							
<i>Surrogate: 1-Chlorooctadecane</i>									
	87.4 %	37.6-147							

**Sample ID: S - 1 2' REFUSAL (H802398-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2200</b>	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	110 %	41-142							
<i>Surrogate: 1-Chlorooctadecane</i>									
	106 %	37.6-147							

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

Received: 08/27/2018  
Reported: 08/30/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 08/23/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 1' (H802398-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 3 2' (H802398-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 3 4' (H802398-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 3 6' (H802398-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 3 8' (H802398-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/29/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

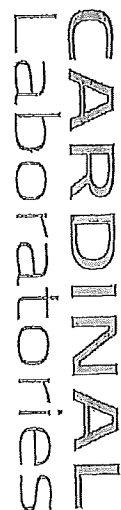
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature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

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Celey D. Keene, Lab Director/Quality Manager



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

August 30, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 08/27/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/27/2018  
Reported: 08/30/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 08/23/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 7 1' (H802399-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 7 2' (H802399-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 7 3' (H802399-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/29/2018	ND	432	108	400	0.00	

**Sample ID: S - 7 4' (H802399-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/29/2018	ND	432	108	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/27/2018  
 Reported: 08/30/2018  
 Project Name: HAWK 9 #7  
 Project Number: 701307.112.01  
 Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 08/23/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 7 5' (H802399-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/29/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

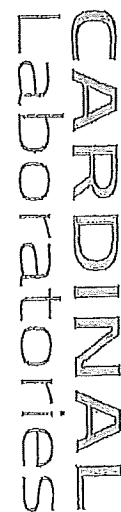
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

October 15, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/12/18 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 BOTTOM COMP (H802944-01)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/15/2018	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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 6 N SIDEWALL (H802944-02)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	10/15/2018	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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 6 S SIDEWALL (H802944-03)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	10/15/2018	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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 7 N SIDEWALL (H802944-04)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/15/2018	ND	400	100	400	3.92	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 7 W SIDEWALL (H802944-05)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	10/15/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/12/2018  
Reported: 10/15/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/12/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 7 S SIDEWALL (H802944-06)**

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	10/15/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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Mike Snyder For 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

October 18, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/17/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/17/2018	Sampling Date:	10/17/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	HAWK 9 #7	Sampling Condition:	** (See Notes)
Project Number:	701307.112.01	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

**Sample ID: S- 3 BOTTOM CONFIRMATION (H802980-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 3 NORTH SIDEWALL CONF. (H802980-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 3 SOUTH SIDEWALL CONF. (H802980-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 3 EAST SIDEWALL CONF. (H802980-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	10/17/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/17/2018  
Reported: 10/18/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/17/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S- 3 WEST SIDEWALL CONF. (H802980-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 6 BOTTOM CONFIRMATION (H802980-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 6 NORTH SIDEWALL CONF. (H802980-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 6 SOUTH SIDEWALL CONF. (H802980-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 6 EAST SIDEWALL CONF. (H802980-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	10/17/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/17/2018  
Reported: 10/18/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/17/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S- 6 WEST SIDEWALL CONF. (H802980-10)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 7 BOTTOM CONFIRMATION (H802980-11)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 7 NORTH SIDEWALL CONF. (H802980-12)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 7 SOUTH SIDEWALL CONF. (H802980-13)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/17/2018	ND	432	108	400	0.00	

**Sample ID: S- 7 EAST SIDEWALL CONF. (H802980-14)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/17/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/17/2018	Sampling Date:	10/17/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	HAWK 9 #7	Sampling Condition:	** (See Notes)
Project Number:	701307.112.01	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

**Sample ID: S- 7 WEST SIDEWALL CONF. (H802980-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/17/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

<b>BILL TO</b>		<b>Company Name:</b> Talon LPE	P.O. #:
<b>Project Manager:</b> CJones		<b>Address:</b> 408 W. Texas	<b>Company:</b> Talon LPE
		<b>City:</b> Artesia	<b>Attn:</b>
		<b>State:</b> NM Zip: 88210	<b>Address:</b>
		<b>Phone #:</b> 631-6977	<b>City:</b>
		<b>Fax #:</b>	<b>State:</b>
		<b>Project #: 701307.1A.DI</b>	<b>Zip:</b>
		<b>Project Owner:</b> Lime Rock	
<b>Project Location:</b>			
<b>Sampler Name:</b> C Jones			
<b>Fax #:</b>			

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. <input type="checkbox"/>	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
#B02980	S-3 Bottom Confirmation	/								10/17/18	12:0	✓ Chlorides
	S-3 N Sidewell Conf										12:15	
	S-3 S Sidewell Conf										12:22	
	S-3 E Sidewell Cont										12:25	
	S-3 W Sidewell Conf										12:30	
	S-6 Bottom Confirmation										12:35	
	S-6 N Sidewell Conf										12:40	
	S-6 S Sidewell Conf										12:45	
	S-6 E Sidewell Conf										12:50	
	S-6 W Sidewell Conf										12:55	

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<b>Relinquished By:</b> [Signature]	<b>Date:</b> 10/17/18	<b>Received By:</b> [Signature]	<b>Date:</b> 10/17/18
<b>Time:</b>		<b>Time:</b>	
<b>Relinquished By:</b>		<b>Received By:</b>	
<b>Date:</b>		<b>Date:</b>	
<b>Time:</b>		<b>Time:</b>	

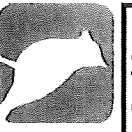
  

<b>Delivered By: (Circle One)</b>	<b>Cool Intact</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>
Sampler - UPS    Bus - Other:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Bad <input type="checkbox"/>	[Initials] [Signature]

**REMARKS:** Fresh!





# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

October 24, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/23/18 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/23/2018  
Reported: 10/24/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.012.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/19/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S- 7 WESTSIDEWALL (H803041-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/24/2018	ND	400	100	400	3.92	

**Sample ID: S- 7 N. SIDEWALL (H803041-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	10/24/2018	ND	400	100	400	3.92	

**Sample ID: S- 6 N. SIDEWALL (H803041-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/24/2018	ND	400	100	400	3.92	

**Sample ID: S- 6 S. SIDEWALL (H803041-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/24/2018	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

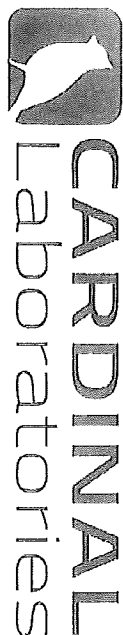
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported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

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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: <u>Talon CPE</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																
Project Manager: <u>CTos</u>		Company: <u>Talon</u>																														
Address: <u>408 W. Texas</u>		Attn:																														
City: <u>Albino</u>		Address:																														
Phone #: <u>631-6877</u>		City:																														
Fax #: <u></u>		State:																														
Project #: <u>761307.01201</u>		Zip:																														
Project Owner: <u>Line Post</u>																																
Project Name: <u>Hub 9</u>																																
Project Location:																																
Sampler Name: <u>CTos</u>		Fax #:																														
FOR LAB USE ONLY																																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																							
		GROUNDWATER																														
		WASTEWATER																														
		SOIL																														
		SLUDGE																														
		OTHER :																														
		ACID/BASE:																														
		ICE / COOL																														
		OTHER :																														
		DATE	TIME																													
<u>H803841</u>	<u>5-7 West Side well</u>	<u>✓</u>	<u>1</u>	<u>10/16/18</u>	<u>1200</u>	<u>✓</u>	<u>Chlorides</u>																									
<u>2</u>	<u>5-7 N. Side well</u>	<u>✓</u>	<u>1</u>	<u>1005</u>	<u>1010</u>	<u>✓</u>																										
<u>3</u>	<u>5-6 N. Side well</u>	<u>✓</u>	<u>1</u>	<u>1010</u>	<u>1015</u>	<u>✓</u>																										
<u>4</u>	<u>5-6 S. Side well</u>	<u>✓</u>	<u>1</u>	<u>1015</u>	<u>1015</u>	<u>✓</u>																										
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																
Relinquished By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Time: <u>16:30</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Time: <u>16:30</u>																		
Relinquished By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Time: <u>16:30</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-18</u>		Time: <u>16:30</u>																		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>10.4c #47</u>		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: <u>yo.</u>																												

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





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

November 01, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/31/18 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/31/2018  
 Reported: 11/01/2018  
 Project Name: HAWK 9 #7  
 Project Number: 701307.112.01  
 Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/30/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 6 N. SIDEWALL (H803107-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 7 N. SIDEWALL (H803107-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/01/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

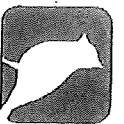
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

November 06, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 11/05/18 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	11/05/2018	Sampling Date:	10/31/2018
Reported:	11/06/2018	Sampling Type:	Soil
Project Name:	HAWK 9 #7	Sampling Condition:	** (See Notes)
Project Number:	701307.112.01	Sample Received By:	Jodi Henson
Project Location:	LIMEROCK - EDDY CO NM		

**Sample ID: S-3 BOTTOM (H803168-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-3 N. SIDEWALL (H803168-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-3 S. SIDEWALL (H803168-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-3 W. SIDEWALL (H803168-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/06/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/05/2018  
Reported: 11/06/2018  
Project Name: HAWK 9 #7  
Project Number: 701307.112.01  
Project Location: LIMEROCK - EDDY CO NM

Sampling Date: 10/31/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-3 E. SIDEWALL (H803168-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-6 BOTTOM (H803168-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-6 E. SIDEWALL (H803168-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-6 W. SIDEWALL (H803168-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2018	ND	416	104	400	3.77	

**Sample ID: S-7 BOTTOM (H803168-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/06/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Talon LDC</u>		P.O. #:		BILL TO											
Project Manager: <u>C Jones</u>		Company: <u>Talon</u>		ANALYSIS REQUEST											
Address: <u>408 J. Texas</u>		Attn:													
City: <u>Artesia</u>		Address:													
Phone #: <u>631-6977</u>		City:													
Project #: <u>701307-112.01</u>		State: <u>NM</u>		Zip: <u>88240</u>											
Project Name: <u>Hawk 9</u>		State:		Zip:											
Project Location: <u>Eddy, NM</u>		Phone #:													
Sample Name: <u>CS One</u>		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
H803168	1 S-3 Bottom	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							DATE	TIME	
	2 S-3 N. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							10-3-18	1000	
	3 S-3 S. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1005	1005	
	4 S-3 W. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1010	1010	
	5 S-3 E. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1015	1015	
	6 S-6 Bottom	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1020	1020	
	7 S-6 E. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1025	1025	
	8 S-6 W. Side well	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1030	1030	
	9 S-7 Bottom	<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1035	1035	
		<input checked="" type="checkbox"/>	1			<input checked="" type="checkbox"/>							1040	1040	
PLEASE NOTE: Liability and Damages: Cardinal's liability and claims exclusion remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.															
Relinquished By:		Date: <u>11/5/18</u>	Received By: <u>Jodi Menden</u>	REMARKS: <u>Chlorides</u>											
Relinquished By:		Date:	Received By:												
Time:															
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>[Signature]</u>											
Sampler - UPS - Bus - Other: <u>2240 / #97</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													

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**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 8306

**CONDITIONS**

Operator: LIME ROCK RESOURCES II-A, L.P. 1111 Bagby Street Houston, TX 77002	OGRID: 277558
	Action Number: 8306
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	6/27/2022