

NRM2005551440

Initial C-141 on page 19



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Remediation and Closure Report

Hawk 9 Federal #22
API# 30-015-43765
Talon Project # 701307.129.01

Prepared For:

Lime Rock Resources
1111 Bagby St. Suite 4600
Houston, TX 77002

Prepared By:

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

February 18, 2020

Mr. Jim Amos
BLM Carlsbad Field Office
620 East Greene Street
Carlsbad, NM 88220

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

Subject: **Remediation and Closure Report**
Hawk 9 Federal #22
API 30-015-43765
Eddy County, NM

Dear Mr. Amos & Mr. Bratcher,

Lime Rock Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our remediation and closure request are contained herein. The incident descriptions, soil sampling results, remedial actions, and closure requests are presented herein.

Site Information

Hawk 9 Federal #22 is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter A, Section 9, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.76956663 North and -104.2748572 West. A Site Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum lands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Guadalupian in age and is comprised of weathered gypsum. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the average reported depth to groundwater is 50-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a high potential Karst area.

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

Approximate Depth to Groundwater **50 Feet/BGS**

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

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

Incident Description

On October 23, 2019, a leak was found at the Hawk 9 Fed #22. A spring on the rod rotator broke, causing the cable to wrap around the casing line at the wellhead. When the pumping unit went on the upstroke, the casing and tubing lines were pulled up and out of the wellhead, releasing 23 bbls of mixed fluids. The released fluids were contained on location due to the berms built along the edges. Lime Rock immediately placed an emergency one-call, dispatched vac trucks and a backhoe to begin initial cleanup measures. The vac truck recovered the free-standing fluids (20 bbls mixed fluids), the backhoe scraped up the saturated surface caliche from the spill path and stockpiled it on location for later disposal. A site map is presented in [Appendix I](#).

On November 19, 2019, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of remediation activities. Soil samples were collected using a direct push geoprobe and a hand auger.

On December 18, 2019, Talon mobilized personnel and equipment to the site to begin remediation activities. The impacted areas were excavated, utilizing a backhoe. Confirmation samples were collected from the bottom and sidewalls of the excavation to ensure that all environmental impacts had been addressed and were below NMOCD Closure Criteria 19.15.29.12 D NMAC.

Soil Sampling

11-19-19 Boring Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	160
S-2	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	80
S-3	11/19/2019	0-1	ND	ND	ND	30.3	ND	30.3	240
B-1	11/19/2019	0-1	ND	ND	ND	12.2	ND	12.2	880
		2-R	ND	ND	ND	383	52.1	435.1	1070
B-2	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	928
		2	ND	ND	ND	ND	ND	ND	560
		3	ND	ND	ND	ND	ND	ND	128
		4	ND	ND	ND	ND	ND	ND	32
		5	ND	ND	ND	ND	ND	ND	320
		6	ND	ND	ND	ND	ND	ND	48
		7-R	ND	ND	ND	ND	ND	ND	32
B-3	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	5000
		2	ND	ND	ND	ND	ND	ND	80
		3	ND	ND	ND	ND	ND	ND	848
		4-R	ND	ND	ND	ND	ND	ND	32
B-4	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	2720
		2-R	ND	ND	ND	ND	ND	ND	112
B-5	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	3680
		2	ND	ND	ND	ND	ND	ND	2800
		3	ND	ND	ND	ND	ND	ND	2080
		4	ND	ND	ND	68.2	ND	68.2	3600
		5	ND	ND	ND	ND	ND	ND	48
		6-R	ND	ND	ND	ND	ND	ND	32
B-6	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	496
		2	ND	ND	ND	ND	ND	ND	96
		3	ND	ND	ND	ND	ND	ND	112
		4-R	ND	ND	ND	20.9	ND	20.9	96
B-7	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	7760
		2	ND	ND	ND	ND	ND	ND	624
B-8	11/19/2019	0-1	ND	ND	ND	ND	ND	ND	32
		2	ND	ND	ND	ND	ND	ND	32
		3-R	ND	ND	ND	ND	ND	ND	80

ND- Analyte Not Detected

1-8-20 Confirmation Laboratory Results

Sample ID	Sample Date	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC						100 mg/kg	600 mg/kg
B-1 Composite	1/8/2020	3	ND	ND	ND	ND	80
B-2 Composite	1/8/2020	2	--	--	--	--	96
B-3 Composite	1/8/2020	3.5	--	--	--	--	112
B-4 Composite	1/8/2020	2	--	--	--	--	80
B-5 Composite	1/8/2020	5	--	--	--	--	112
B-7 Composite	1/8/2020	2.5	--	--	--	--	96

ND- Analyte Not Detected, -- Analyte Not Tested

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

Remedial Actions:

- The impacted areas in the vicinity of B-2 and B-4 were excavated to a depth of 2.0-feet BGS, laboratory analytical results from confirmation bottom and sidewall composite soil samples indicated that Chloride concentrations were below NMOCD Closure Criteria 19.15.29.12 D NMAC.
- The impacted area in the vicinity of B-7 was excavated to a depth of 2.5-feet BGS, laboratory analytical results from confirmation bottom and sidewall composite soil samples indicated that Chloride concentrations were below NMOCD Closure Criteria.
- The impacted area in the vicinity of B-1 was excavated to a depth of 3.0-feet BGS, laboratory analytical results from confirmation bottom and sidewall composite soil samples indicated that TPH and Chloride concentrations were below NMOCD Closure Criteria.
- The impacted area in the vicinity of B-3 was excavated to a depth of 3.5-feet BGS, laboratory analytical results from confirmation bottom and sidewall composite soil samples indicated that Chloride concentrations were below NMOCD Closure Criteria.
- The impacted area in the vicinity of B-5 was excavated to a depth of 5.0-feet BGS, laboratory analytical results from confirmation bottom and sidewall composite soil samples indicated that Chloride concentrations were below NMOCD Closure Criteria.
- The surface staining in the areas of B-6 and B-8 was scraped, removing all stains from these areas.
- All contaminated soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- The excavated areas were backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- See [Appendix IV](#) for Photographic Documentation of remedial actions.
- A Final C-141 is attached in [Appendix III](#).

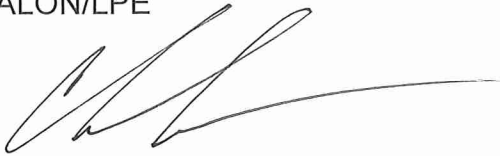
Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this site and that closure with regard 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

Attachments:

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



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATOR MAP

Hawk 9 Federal #22

Lime Rock Resources
API 30-015-43765
Eddy County, NM
Site Map

- Legend**
- Sample
 - Spill Area

Hawk 9 A Fed 22



Hawk 9 Federal #22

Lime Rock Resources
API 30-015-43765
Eddy County, NM
Karst Map

Hawk 9 A Fed 22

Lovington Hwy

Bluestem Rd

Google Earth

© 2020 Google

9730301884 Copernicus

Received by OCD: 2/24/2019 6:58:16 AM

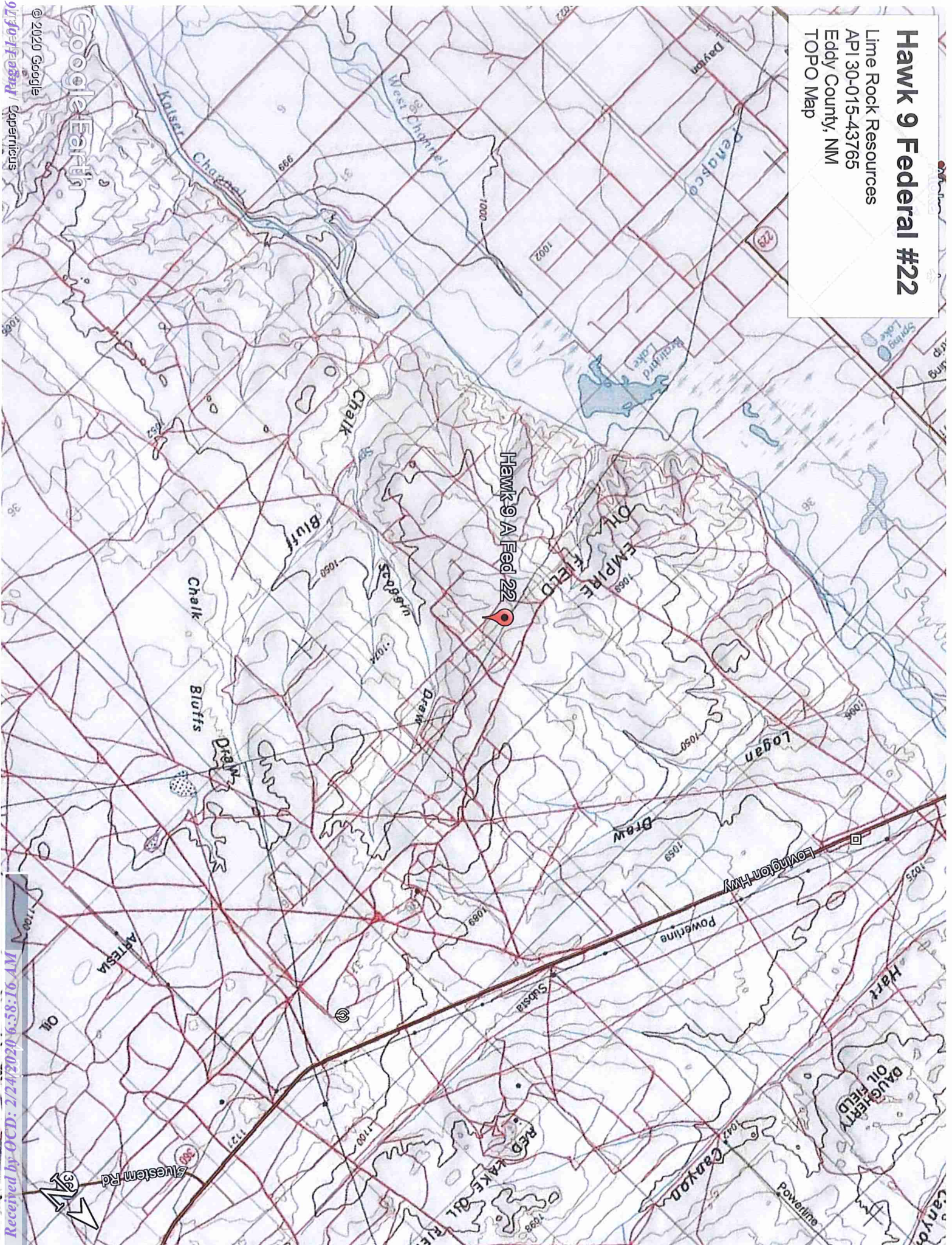
Hawk 9 Federal #22

Lime Rock Resources

API 30-015-43765

Eddy County, NM

TOPO Map



Hawk 9 Federal #22

Lime Rock Resources
API 30-015-43765
Eddy County, NM
Locator Map

Hawk 9 A Fed 22



Lovington Hwy

Siwestem Rd

Google Earth

© 2020 Google

9730-27-08807 Copernicus

UT 97-85-9 01002122-0-0-0-0 4 mi





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 03917		RA	LE	4	1	2	10	18S	27E		569019	3625660*	1145	130	50	80
RA 03714		RA	CH	4	4	2	08	18S	27E		566212	3625253*	1851	381		

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 567917

Northing (Y): 3625973.591

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.

2/18/20 11:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Plains, ridges, hills
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
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

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 25 percent
Gypsum, maximum in profile: 80 percent
Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Plains, ridges, hills
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
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

Cottonwood

Percent of map unit: 5 percent
Ecological site: Salty Bottomland (R042XC033NM)
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
 Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



32°46'25.56"N



USGS The National Map: Orthoimagery: Data refreshed April, 2019.

32°45'55.31"N

Legend

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

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A1, V, ASS With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
----------------------------	---

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with draining areas of less than one square mile Zone ;
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee. See Notes, Zone X
Area with Flood Risk due to Levee Zone D

NO SCREEN	Area of Minimal Flood Hazard Zone X
Effective LOMRS	Area of Undetermined Flood Hazard Zone
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

20.2 17.5	Cross Sections with 1% Annual Chance Water Surface Elevation
Base Flood Elevation Line (BFE)	Coastal Transect
Limit of Study	Base Flood Elevation Line (BFE)
Jurisdiction Boundary	Limit of Study
Coastal Transect Baseline	Jurisdiction Boundary
Profile Baseline	Coastal Transect Baseline
Hydrographic Feature	Profile Baseline

Digital Data Available	MAP PANELS
No Digital Data Available	Unmapped

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

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/19/2020 at 10:12:21 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



APPENDIX III

INITIAL C-141 & FINAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Lime Rock Resources	OGRID 277558
Contact Name Michael Barrett	Contact Telephone 575-365-9724
Contact email mbarrett@limerockresources.com	Incident # (assigned by OCD)
Contact mailing address 1111 Bagby St Ste 4600 Houston, TX 77002	

Location of Release Source

Latitude 32.76956663 Longitude -104.2748572
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hawk 9 A Federal #22	Site Type Production Facility
Date Release Discovered 10-23-19	API# 30-015-43765

Unit Letter	Section	Township	Range	County
A	9	18S	27E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Key Livestock, LLC)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released 1 bbl	Volume Recovered 1 bbl
<input checked="" type="checkbox"/> Produced Water	Volume Released 22 bbls	Volume Recovered 19 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A spring on the rod rotator broke causing cable to wrap around casing line at the well head, when the unit went on the upstroke the casing and tubing lines were pulled out of the well head releasing 23 bbls of mixed fluids.

Form C-141

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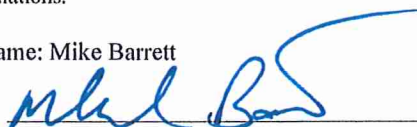
State of New Mexico
Oil Conservation Division

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Chris Jones-Talon LPE to Mike Bratcher, Victoria Venegas, Robert Hamlet-NMOCD, Jim Amos-BLM on 10-2-19 via email.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Mike Barrett Signature:  email: mbarrett@limerockresources.com	Title: Production Superintendent Date: <u>2-18-20</u> Telephone: 575-365-9724
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>2/24/2020</u>	

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: Date: 2-18-20email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD OnlyReceived by: Ramona MarcusDate: 2/24/2020

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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


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

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

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: 

Date: 2-18-20

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus Date: 2/24/2020

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

Signature: _____

Date: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005551440
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: Date: 2-18-20email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: Ramona MarcusDate: 2/24/2020

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

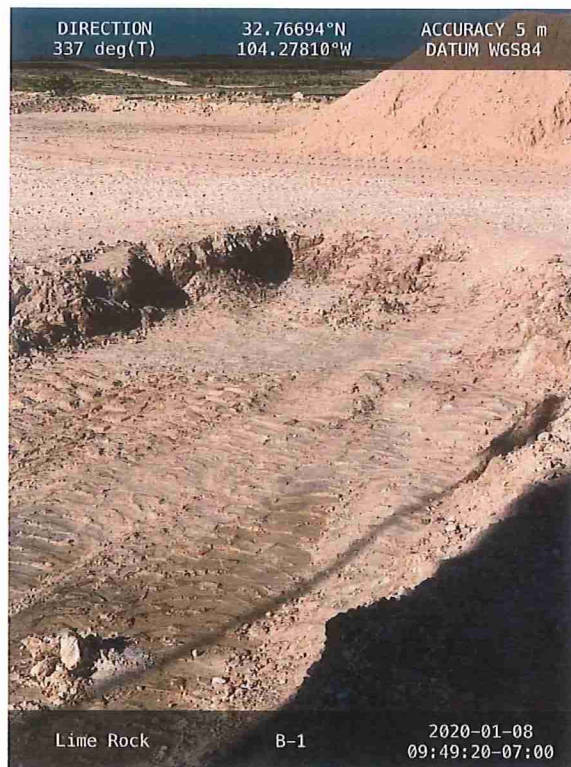
Hawk 9 Federal #22

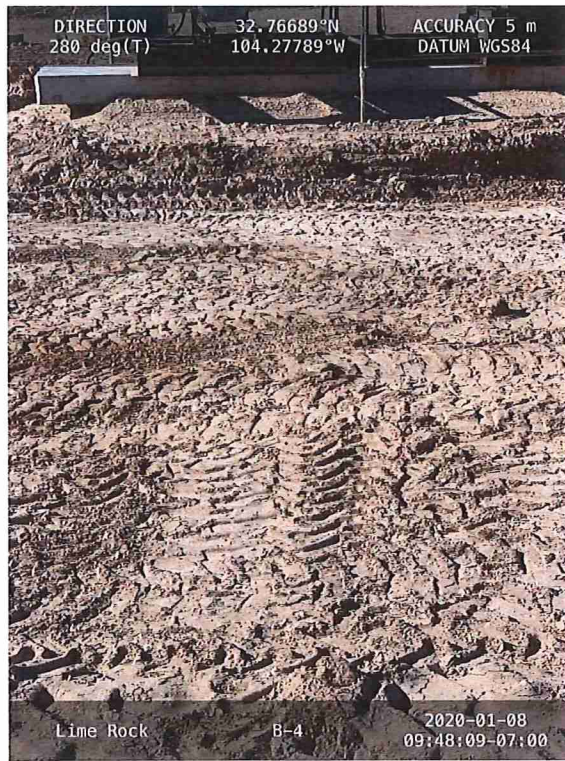


Excavation and Geotagged Composite Sample Areas





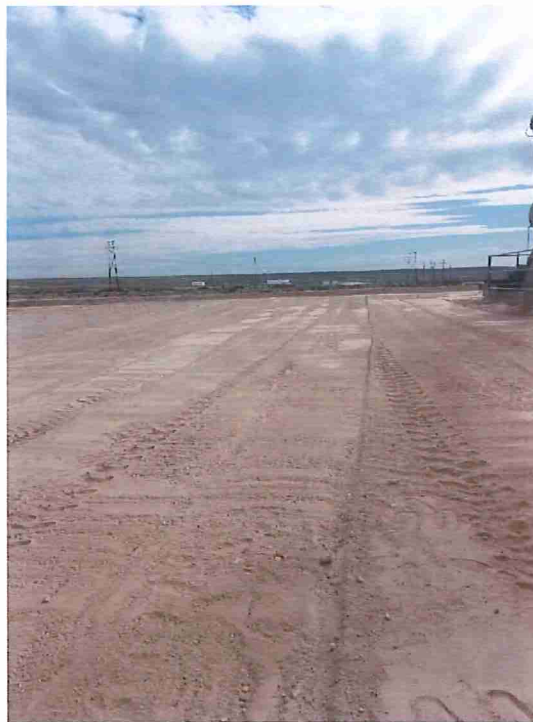
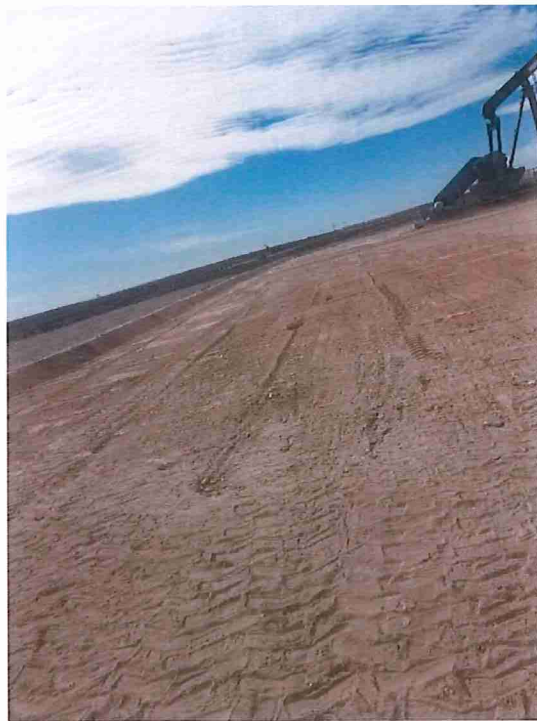






Completed







APPENDIX V

LABORATORY DATA



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

January 10, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 FED 22

Enclosed are the results of analyses for samples received by the laboratory on 01/08/20 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 01/08/2020
Reported: 01/10/2020
Project Name: HAWK 9 FED 22
Project Number: 701307.179.01
Project Location: EDDY CO NM

Sampling Date: 01/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 1 COMP (H000062-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2020	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	01/09/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					
Surrogate: 1-Chlorooctane	81.3 %	41-142							
Surrogate: 1-Chlorooctadecane	89.0 %	37.6-147							

Sample ID: B - 2 COMP (H000062-02)

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	01/09/2020	ND	400	100	400	3.92	

Sample ID: B - 3 COMP (H000062-03)

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	01/09/2020	ND	400	100	400	3.92	

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:	01/08/2020	Sampling Date:	01/08/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	HAWK 9 FED 22	Sampling Condition:	Cool & Intact
Project Number:	701307.179.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: B - 4 COMP (H000062-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2020	ND	400	100	400	3.92	

Sample ID: B - 5 COMP (H000062-05)

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	01/09/2020	ND	400	100	400	3.92	

Sample ID: B - 7 COMP (H000062-06)

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	01/09/2020	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

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



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

November 21, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9A FED #22

Enclosed are the results of analyses for samples received by the laboratory on 11/20/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 1 0'-1' (H903938-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/21/2019	ND	400	100	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	11/20/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/20/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/20/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 2 0'-1' (H903938-02)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2019	ND	400	100	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	11/20/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/20/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/20/2019	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 3 0'-1' (H903938-03)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 73.3-129

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	11/21/2019	ND	400	100	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	11/20/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	30.3	10.0	11/20/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/20/2019	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 1 0'-1' (H903938-04)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/21/2019	ND	400	100	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	11/20/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	12.2	10.0	11/20/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/20/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 1 2' R (H903938-05)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	383	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	52.1	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Coley D. Keene

Coley 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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 2 0'-1' (H903938-06)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 2 2' (H903938-07)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene

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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 2 3' (H903938-08)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 97.3 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 2 4' (H903938-09)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Analytical Results For:

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

Received:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 2 5' (H903938-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.9 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 2 6' (H903938-11)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.9 % 37.6-147

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Analytical Results For:

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

Received: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 2 7' R (H903938-12)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 3 0'-1' (H903938-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5000	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 3 2' (H903938-14)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 3 3' (H903938-15)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Coley D. Keene

Coley 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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 3 4' R (H903938-16)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 4 0'-1' (H903938-17)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	11/21/2019	ND	400	100	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 4 2' R (H903938-18)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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Coley D. Keene

Coley 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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 5 0'-1' (H903938-19)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 5 2' (H903938-20)

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	11/21/2019	ND	1.84	92.1	2.00	3.75	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	91.1	2.00	3.97	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	4.26	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	92.9	6.00	4.29	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	197	98.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	196	98.2	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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Analytical Results For:

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

Received:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 5 3' (H903938-21)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 79.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 5 4' (H903938-22)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	68.2	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 5 5' (H903938-23)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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Analytical Results For:

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

Received: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 5 6' R (H903938-24)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Analytical Results For:

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

Received:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 7 0'-1' (H903938-25)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 7 2' R (H903938-26)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PII) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Analytical Results For:

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

Received:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 8 0'-1' (H903938-27)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTEx	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene

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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 8 2' (H903938-28)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 82.7 % 37.6-147

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Coley D. Keene

Coley 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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 8 3' R (H903938-29)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 79.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.7 % 37.6-147

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Coley D. Keene

Coley 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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 6 0'-1' (H903938-30)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

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*=Accredited Analyte

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Celest 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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 6 2' (H903938-31)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTEX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

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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: 11/20/2019
Reported: 11/21/2019
Project Name: HAWK 9A FED #22
Project Number: 701307.129.01
Project Location: LIME ROCK - EDDY CO

Sampling Date: 11/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B- 6 3' (H903938-32)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.6 % 37.6-147

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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:	11/20/2019	Sampling Date:	11/19/2019
Reported:	11/21/2019	Sampling Type:	Soil
Project Name:	HAWK 9A FED #22	Sampling Condition:	Cool & Intact
Project Number:	701307.129.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO		

Sample ID: B- 6 4' R (H903938-33)

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	11/21/2019	ND	1.84	91.8	2.00	3.65	
Toluene*	<0.050	0.050	11/21/2019	ND	1.82	90.9	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/21/2019	ND	1.85	92.6	2.00	3.98	
Total Xylenes*	<0.150	0.150	11/21/2019	ND	5.58	93.0	6.00	4.35	
Total BTX	<0.300	0.300	11/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.9 % 73.3-129

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	11/21/2019	ND	400	100	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	11/21/2019	ND	196	98.1	200	1.21	
DRO >C10-C28*	20.9	10.0	11/21/2019	ND	208	104	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	11/21/2019	ND					

Surrogate: 1-Chlorooctane 72.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

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: TALON LPE		P.O. #: 701307.129.01	
Project Manager: CHRIS JONES		Company: TALON	
Address: 408 W. TEXAS AVE		Attn:	
City: ARTESIA		Address:	
Phone #: 575-631-6977		State: NM Zip: 88210	
Project #: 701307.129.01		Project Owner: LIMEROCK	
Project Name: HAWK 9A FBO #22		City:	
Project Location: EDDY COUNTY		State: Zip:	
Sampler Name: MICHAEL COLLIER		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab ID.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	TPH	BTEX	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
H903938	5-1 0'-1'	G	1			✓						11-15-15	10:50am	✓	✓	✓
	5-2 0'-1'												10:55am			
	5-3 0'-1'												10:00am			
	4 B-1 0'-1'												11:10am			
	5 B-1 2' R												11:15am			
	6 B-2 0'-1'												11:20am			
	7 B-2 2'												12:20am			
	8 B-2 3'												11:34am			
	9 B-2 4'												11:20am			
	10 B-2 5'												11:35am			

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Relinquished By: Michael Collier Date: 11-20-19 Received By: Monica Collier Time: 11:40

Relinquished By: Michael Collier Date: 11-20-19 Received By: Monica Collier Time: 11:40

Delivered By: (Circle One) CSC H97 Sample Condition: Good Intact Yes No Yes No CHECKED BY: VS (Initials)

Sampler - UPS - Bus - Other: Delivered 070 Yes No Yes No

REMARKS: PL 10F4

Phone Result: Yes No Add'l Phone #: Yes No Add'l Fax #: Yes No Add'l Fax #:

REMARKS: RUSH

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TRACON LPE		P.O. #: 701307.129.01	
Project Manager: CHARIS JONES		Company: TRACON	
Address: 408 W. TEXAS AVE		City: ALBUQUERQUE	
City: ALBUQUERQUE		State: NM Zip: 88210	
Phone #: 575-631-6977 Fax #: 		Address: 	
Project #: 701307.129.01 Project Owner: LMEROCK		City: 	
Project Name: HAWK GR FEO #22		State: Zip: 	
Project Location: EDDY COUNTY		Phone #: 	
Sampler Name: MICHAEL COOPER		Fax #: 	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	METHOD						DATE	TIME	TPH	BTEX	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
4903938														
11	B-2 6'	✓	1			✓				11-19-18	11:37am	✓	✓	✓
12	B-2 7'R										11:38am			
13	B-3 0'-1'										11:45am			
14	B-3 2'										11:47am			
15	B-3 3'										11:49am			
16	B-3 4'R										11:51am			
17	B-4 0'-1'										12:02am			
18	B-4 2'R										12:04am			
19	B-5 0'-1'										12:14am			
20	B-5 2'										12:16am			

Relinquished By: Michael Cooper	Date: 11-20-19	Received By: Amelia White	Date: 11-20-19
Time: 11:40	Time: 11:40		

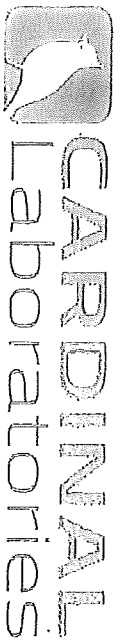
Delivered By: (Circle One) D.3c	Sample Condition: Good	Checked By: PLG
Sampler - UPS - Bus - Other: Delivered	Coil Intact: Yes	Initials: PLG
	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS: **RUS#**

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: T ALON LPT		P.O. #: T01307.129.01	
Project Manager: CHRIS JONES		Company: T ALON	
Address: 408 W TEXAS AVE		City: ALBUQUERQUE	
City: ALBUQUERQUE		State: NM Zip: 88210	
Phone #: 575-631-6977		Fax #: 575-631-6977	
Project #: T01307.129.01		Project Owner: LAMARCO	
Project Name: HAWK 9A FBO #22		City: ALBUQUERQUE	
Project Location: EPOY COUNTY		State: NM Zip: 88210	
Sample Name: MICHAEL COLLIER		Phone #: 575-631-6977	
FOR LAB USE ONLY		Fax #: 575-631-6977	

Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX										DATE	TIME	TPH	BTEX	TOTAL CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:						
4903938																		
21	B-5 3'		1															
22	B-5 4'																	
23	B-5 5'																	
24	B-5 6'																	
25	B-7 0'-1'																	
26	B-7 2'R																	
27	B-8 0'-1'																	
28	B-8 2'																	
29	B-8 3'R																	
30	B-6 0'-1'																	

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Relinquished By: Michael Collier Date: 11-20-19 Received By: Chris Jones Date: 11-20-19

Delivered By: (Circle One) Q.3c Sample Condition: Good Checked By: Q.3c

Sampler - UPS - Bus - Other: Bus Cool: Yes Heat: No Yes: No No: Yes

Remarks: P63 of 4.



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

104 East Maryland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

Company Name: TALON L.P.

Project Manager: CHRIS JONES

Address: 408 W TEXAS AVE

City: ALBUQUERQUE

Phone #: 505-631-0977

Project #: 701307.129.01

Project Name: HAWK GAP FGD #22

Project Location: EDGY COUNTY

Sample Name: MICHAEL CORDER

FOR LAB USE ONLY

P.O. #: 701307.129.01

Company: TALON

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	TOTAL CHLORIDES
H903938											
31	B-6 2'		5	GROUNDWATER			11-15-18	1:04pm	✓	✓	✓
32	B-6 3'		1	WASTEWATER							
33	B-6 4'R		1	SOIL				1:08pm			
				OIL							
				SLUDGE							
				OTHER:							
				ACID/BASE:							
				ICE / COOL							
				OTHER:							

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Relinquished By: *Michael Corder*

Date: 11-20-18 Received By: *Michael Corder*

Relinquished By: *Michael Corder*

Date: 11-20-18 Received By: *Michael Corder*

Delivered By: (Circle One) *0.36*

#77

Sample Condition Cool Intact

CHECKED BY: *V*

Sampler - UPS - Bus - Other: *Printed 11-20-18*

Yes No

Yes No

Yes No

FL 404

REMARKS: *RUSH*

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #: