Initial C-141 on page 19



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/I TDS	Constituent	Method*	Limit**		
50 feet	Total Chlorides***	EPA 300.0 or SM4500 CI B	600 mg/kg		
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg		

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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 La	aboratory Results
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	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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
	11/10/2010	0-1	ND	ND	ND	12.2	ND	12.2	880
B-1	11/19/2019	2-R	ND	ND	ND	383	52.1	435.1	1070
		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
B-2	11/19/2019	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
	11/19/2019 -	0-1	ND	ND	ND	ND	ND	ND	5000
		2	ND	ND	ND	ND	ND	ND	80
B-3		3	ND	ND	ND	ND	ND	ND	848
		4-R	ND	ND	ND	ND	ND	ND	32
	11/10/2010	0-1	ND	ND	ND	ND	ND	ND	2720
B-4	11/19/2019	2-R	ND	ND	ND	ND	ND	ND	112
		0-1	ND	ND	ND	ND	ND	ND	3680
		2	ND	ND	ND	ND	ND	ND	2800
	44 44 9 49 9 4 9	3	ND	ND	ND	ND	ND	ND	2080
B-5	11/19/2019	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
		0-1	ND	ND	ND	ND	ND	ND	496
D.C.	11/10/2010	2	ND	ND	ND	ND	ND	ND	96
B-6	11/19/2019	3	ND	ND	ND	ND	ND	ND	112
		4-R	ND	ND	ND	20.9	ND	20.9	96
	11/10/2012	0-1	ND	ND	ND	ND	ND	ND	7760
B-7	11/19/2019	2	ND	ND	ND	ND	ND	ND	624
		0-1	ND	ND	ND	ND	ND	ND	32
B-8	11/19/2019	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

Comple ID	Sample	Depth	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Table 1 C	NMOCD Table 1 Closure Criteria 19.15.29					100 mg/kg	600 mg/kg
1	NMAC					100 mg/ kg	000 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 2.5feet 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 3.0feet 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 3.5feet 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 5.0feet 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



<u>APPENDIX I</u>

SITE MAP

KARST MAP

ΤΟΡΟ ΜΑΡ

LOCATOR MAP

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APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin...



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)

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JSDA

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

JSDA



MAP PANELS

 \boxtimes

Unmapped

FEATURES

OTHER

Profile Baseline

Hydrographic Feature

Coastal Transect Baseline

Jurisdiction Boundary Limit of Study

Digital Data Available

No Digital Data Available

GENERAL

Channel, Culvert, or Storm Sewer

Area of Undetermined Flood Hazard Zond

C.

Area with Flood Risk due to Levee Zone D

Levee. See Notes. Zone X

Area with Reduced Flood Risk due to

Chance Flood Hazard Zone X

Future Conditions 1% Annual

areas of less than one square mile Zone. of 1% annual chance flood with average 0.2% Annual Chance Flood Hazard, Area

depth less than one foot or with drainag

Regulatory Floodway

With BFE or Depth Zone AE, AO, AH, VE, AR

Without Base Flood Elevation (BFE) Zone A, V, A99

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

B 20.2 @ |

17.5

Water Surface Elevation

Coastal Transect

Cross Sections with 1% Annual Chance

~ 513

Base Flood Elevation Line (BFE)

Received by OCD: 2/24/2020 6:5800000

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

authoritative NFHL web services provided by FEMA. This map was exported on 2/19/2020 at 10:12:21 AM and does not

The flood hazard information is derived directly from the

accuracy standards

The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below.

This map complies with FEMA's standards for the use of

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

become superseded by new data over time.

time. The NFHL and effective information may change or reflect changes or amendments subsequent to this date and



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
А	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)

Crude Oil	Volume Released 1 bbl	Volume Recovered 1 bbl
Produced Water	Volume Released 22 bbls	Volume Recovered 19 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	TYes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
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.

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State of New Mexico Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?If YES, for what reason(s) does the responsible party consider this a major release?						
Yes X No						
If YES, was immediate no Yes, Chris Jones-Talon L	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	The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury					
The source of the rele	ease has been stopped.					
The impacted area has been secured to protect human health and the environment.						
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.						
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: N

email: mbarrett@limerockresources.com

Title: Production Superintendent

Date: 2-18-20

Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus

Date: 2/24/2020

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State of New Mexico Oil Conservation Division

Incident ID	NRM2005551440
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Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical 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 Page 4	State of New I Oil Conservation		Incident ID District RP Facility ID Application ID	NRM2005551440
regulations all operators and public health or the enviro failed to adequately invest	formation given above is true and co re required to report and/or file certa nment. The acceptance of a C-141 n igate and remediate contamination t of a C-141 report does not relieve th	in release notifications and per eport by the OCD does not rel nat pose a threat to groundwate	form corrective actions for re- ieve the operator of liability sl er, surface water, human health	leases which may endanger hould their operations have h or the environment. In
Printed Name: Mike Ba Signature:	Prrett Jan		ion Superintendent $-18-20$	
email: <u>mbarrett@limero</u>	ckresources.com	Telephone: 5	75-365-9724	
OCD Only Received by: Rame	ona Marcus	Date:	2/24/2020	

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Incident ID	NRM2005551440
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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 Signature:	Title: Production Superintendent Date: Z-18-2 J
email: mbarrett@limerockresources.com	Telephone: 575-365-9724
OCD Only Received by: Ramona Marcus Approved Approved with Attached Conditions of a second	Date:2/24/2020 Approval Denied Deferral Approved
Signature:	Date:

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State of New Mexico Oil Conservation Division

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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 Signature: Mu

email: mbarrett@limerockresources.com

Title: Production Superintendent

Date:	C	0	1

Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus

Date: 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













32.76694°N 104.27810°W ACCURACY 5 m DATUM WGS84

DIRECTION 337 deg(T)









Completed











APPENDIX V

LABORATORY DATA



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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



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 - 1 COMP (H000062-01)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Analyzed Method Blank BS True Value QC RPD Qualifier Result Reporting Limit % Recovery Analyte 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 01/09/2020 200 GRO C6-C10* <10.0 10.0 ND 191 95.7 6.24 DRO >C10-C28* <10.0 10.0 01/09/2020 ND 215 107 200 4.95 <10.0 01/09/2020 EXT DRO >C28-C36 10.0 ND 81.3 % 41-142 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	nalyzed 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	

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	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, 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	01/09/2020	ND	400	100	400	3.92	

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

Chloride, SM4500CI-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	

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Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celleg Z. Keene-

Celey D. Keene, Lab Director/Quality Manager


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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 37 of 76



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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 39



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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.3 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	015M 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	% 37.6-14	7						

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.5 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	% 37.6-14	7						

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.8 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 0'-1' (H903938-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.3 % 73.3-129

Chloride, SM4500CI-B	mg,	′kg	Analyze	d 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	% 37.6-14	7						

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Celleg Di Keene



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 0'-1' (H903938-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 102 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 101 % 73.3-129

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	102	37.6-14	7						

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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 3' (H903938-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 102 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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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 4' (H903938-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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	Analyze	d 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	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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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 6' (H903938-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 98.9 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 7' R (H903938-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 100 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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	Analyze	d 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 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	
трн 8015м	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 2' (H903938-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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	Analyze	d 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 100 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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		
Project Name: Project Number:	HAWK 9A FED #22 701307.129.01	Sampling Condition:	Cool & Intact

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 100 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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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 0'-1' (H903938-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.8 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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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	Analyze	d 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, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 0'-1' (H903938-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.7 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 2' (H903938-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 99.8 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS			·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	82.5	% 37.6-14	7						

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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 4' (H903938-22)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	% 37.6-14	7						

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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 5' (H903938-23)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 100 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 6' R (H903938-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS		the street.			
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	% 37.6-14	7						

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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	Analyze	d 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 (PIL 100 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.9 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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	Analyze	d 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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.4 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	9						
Surrogate: 1-Chlorooctadecane	82.7	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 100 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	80.7	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.1 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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	Analyze	d 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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 3' (H903938-32)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	86.6	% 37.6-14	7						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 98.9 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEXE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyzes. All claims, including those for neglegence and any other cause whatsever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such climits based upon any of the above stated reasons or observise. Results relate only to the sample is demediated by client, its subsidianted, affiliates or exproval of cardinal Laboratories.

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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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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			ZIE: 88210	State: Nm Z	City: ARTESIA
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ANALYSIS REQUEST	14/12/14/00/14/14/14			P/s	Company Name: T ALON LPE
				101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	101 East Marti . (375) 393-2320
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101 East Marland, Hickbes, NM 88240 (678) 393-2326 FAX (678) 393-22476 Company Name: T FLON UPF Project Manager: CHRIS JONES Address: 408 W. TEXAS AVE City: ARTESIA Project Manager: CHRIS JONES Address: 408 W. TEXAS AVE Project Manager: CHRIS JONES Address: 408 W. TEXAS AVE Project Manager: CHRIS JONES Address: 408 W. TEXAS AVE Project Manager: CHRIS JONES Project Mame: HAWK G & FED #32 Project Name: HAWK G & FED #32 Project Location: E DDY (OUNTY Samplar Name: MNCHAEL COLLIER Value Use owr Sampler Name: MALANK G & FED #32 For Lie Use owr Sampler Name: MALANK G & FED #32 For Lie Use owr Sampler Name: MALANK G & FED #32 For Lie Use owr Sampler Name: MALANK G & FED #32 Govername: MALANK G & FED #32 For Lie Use owr Govername: MALANK G & GOUNDWATER Soli L	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
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