NRM2004941164

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TALON LPE

Remediation and Closure Report

Eagle 33/34 Federal Battery
Talon Project # 701307.130.01

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 7, 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**
Eagle 33/34 Federal Battery
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

Eagle 33/34 Federal Battery is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 34, Township 17 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

Therefore the clean up criteria is as follows:

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 January 8, 2020, Lact Services was working at the Eagle 33/34 Federal Battery to do scheduled maintenance on the lact unit. Human error from Lact Services technician resulted in a 260 bbl loss of oil from the lact unit. All fluids were contained within the bermed battery containment. Lime Rock immediately placed an emergency one-call and dispatched vac trucks and roustabout crews to begin initial cleanup measures. A site map is presented in Appendix I.

Talon mobilized personnel to the site to supervise the contract companies dispatched by Lime Rock. The impacted area was excavated utilizing hand tools by roustabout crews and hydro-excavators. Because of the tanks and infrastructure, no mechanical excavation equipment was able to be utilized. Hard rock refusal was encountered and hydro-excavators were subsequently used to clean the top of the rock.

A skid steer mounted Geoprobe was mobilized to delineate the vertical extent of the impacted area. The results of our subsurface investigation are summarized in the following data table and the complete lab report is attached in Appendix V.

Soil Sampling

1-22-20 Boring 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
B-1	1/22/2020	0-1'	**220**	**48**	**5100**	**14000**	**5100**	**19148**	150
		2-3'	**210**	**32**	**5100**	**11000**	**3400**	**19500**	--
		4'	ND	ND	ND	56	ND	56	--
B-2	1/22/2020	0-1'	**280**	**64**	**6100**	**13000**	**4700**	**23800**	--
		2-3'	5.5	0.17	**210**	**1100**	**430**	**1740**	--
		4'	--	--	ND	11	ND	11	--
B-3	1/22/2020	0-1'	**77**	**35**	**1900**	**1500**	**470**	**3870**	350
		2-3'	ND	0.11	ND	ND	ND	ND	--
B-4	1/22/2020	0-1'	**200**	**59**	**5100**	**16000**	**5800**	**26900**	99
		2-3'	ND	0.25	ND	**51**	**100**	**151**	--
		4'	--	--	ND	ND	ND	ND	--
B-5	1/22/2020	0-1'	0.18	0.02	4	**270**	**440**	**714**	**2000**
		2	--	--	ND	ND	ND	ND	140
B-6	1/22/2020	0-1'	ND	ND	ND	**98**	**170**	**268**	**2300**
		2-3'	--	--	ND	ND	ND	ND	120

ND- Analyte Not Detected -- Analyte Not Tested

Remedial Actions:

- The impacted areas inside the tank battery area were excavated by hand and hydro-excavation to a depth of 1.5-feet BGS, where hard rock refusal was encountered.
- The impacted area was vertically delineated.
- All contaminated soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- 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 time, and that a deferral until facility closure with regard to this incident be granted. Backfilling efforts will begin as soon as permission is granted.

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

Respectfully submitted,

TALON/LPE

Chris Jones
Project Manager

David J. Adkins
District Manager

Attachments:

Appendix I	Site 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

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TALON LPE

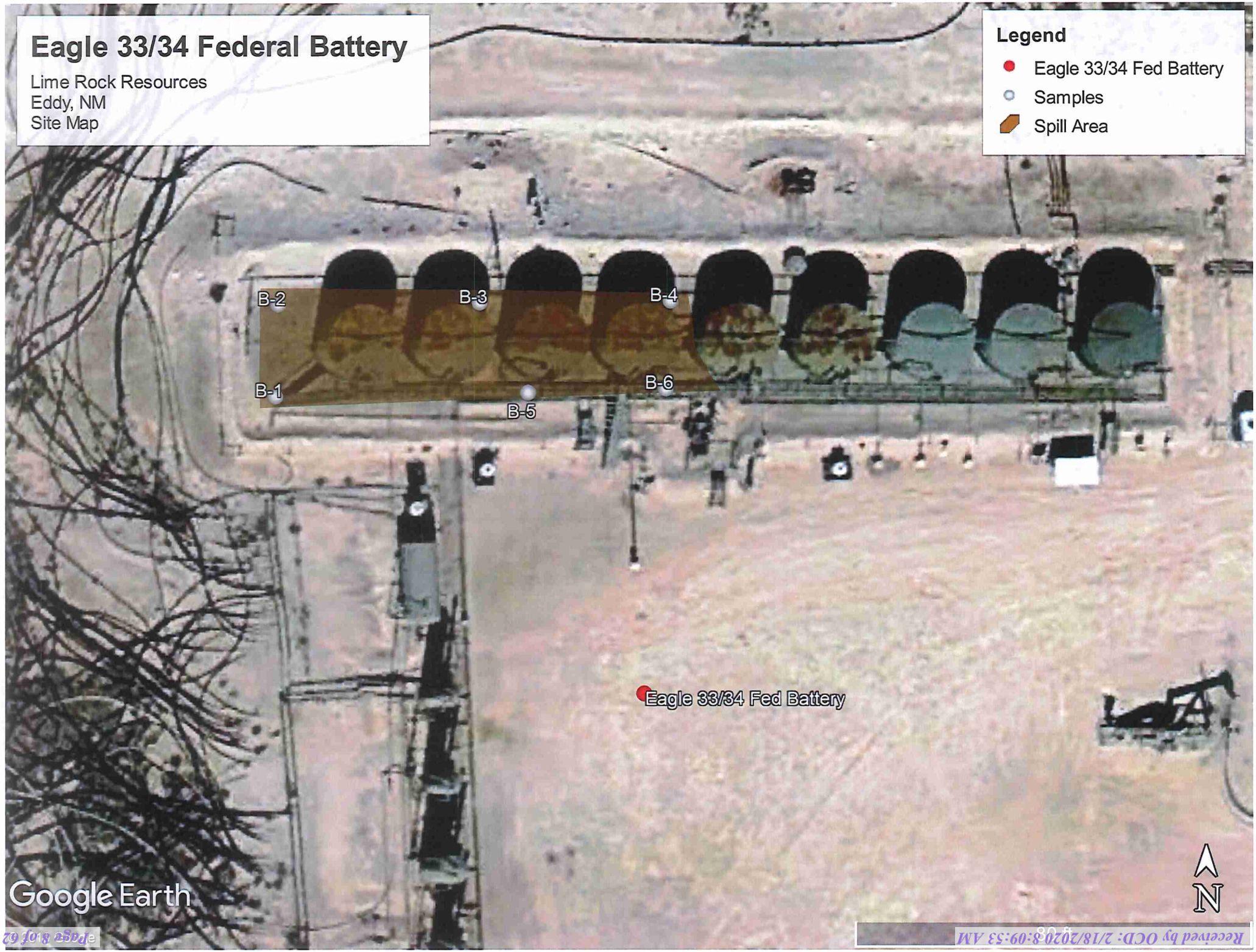
APPENDIX I

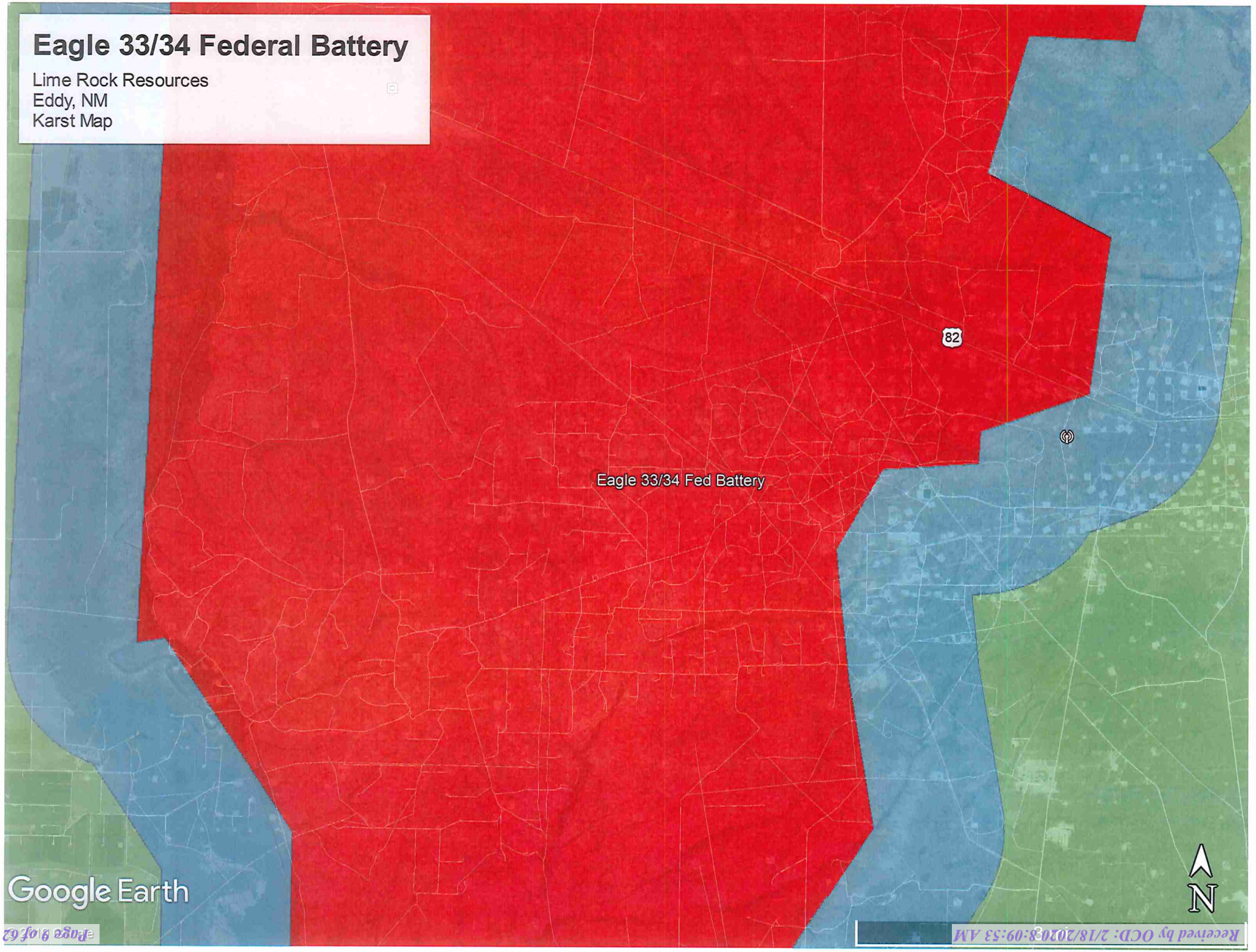
SITE MAP

KARST MAP

TOPO MAP

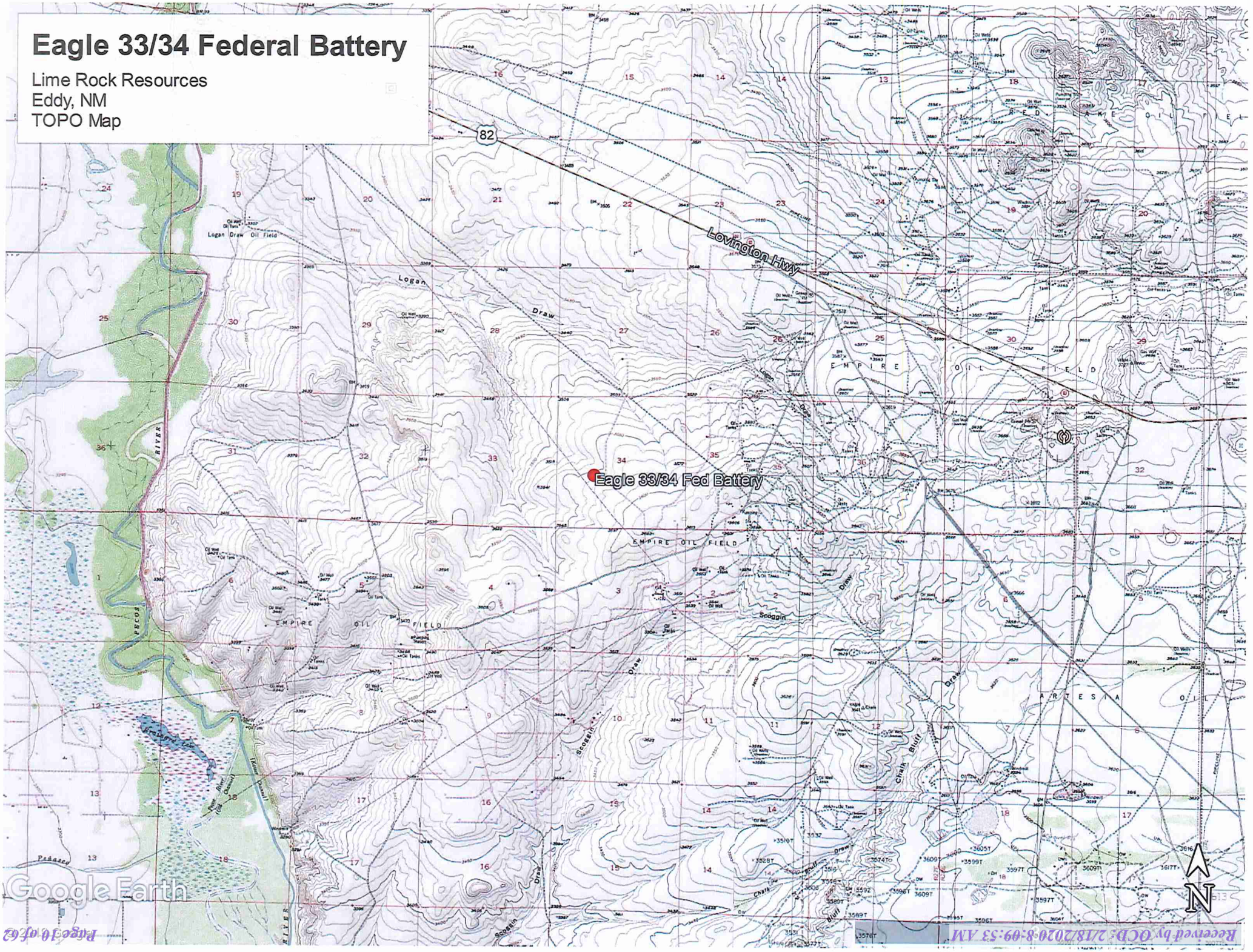
LOCATOR MAP

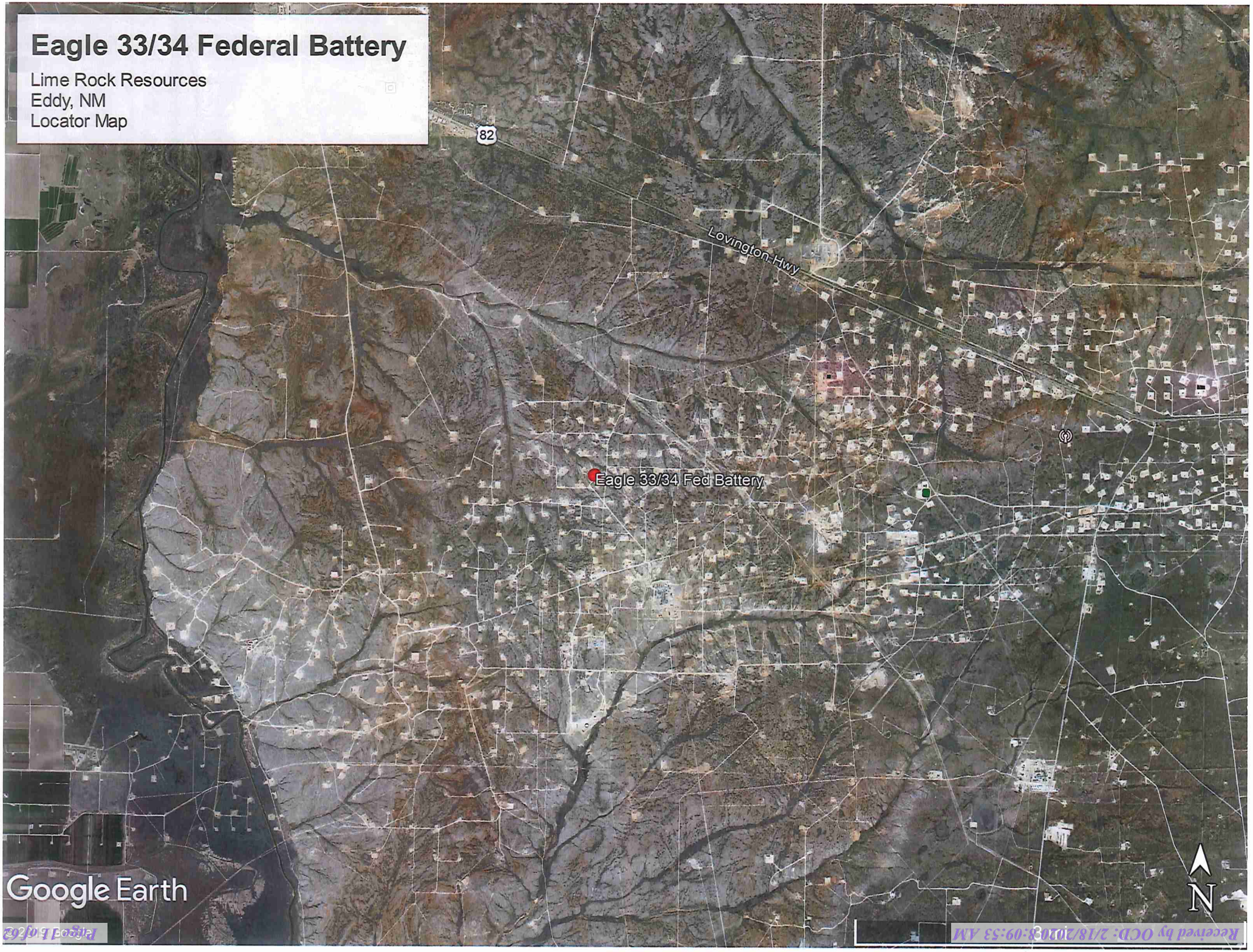




Eagle 33/34 Federal Battery

Lime Rock Resources
Eddy, NM
TOPO Map





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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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 01493		RA	ED		2	1	27	17S	27E	568468	3630529*	2370	876		
RA 03917		RA	LE	4	1	2	10	18S	27E	569019	3625660*	2577	130	50	80

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 568390.599 **Northing (Y):** 3628160.152 **Radius:** 3000

***UTM location was derived from PLSS - see Help**

1/23/20 12:00 PM

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)

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

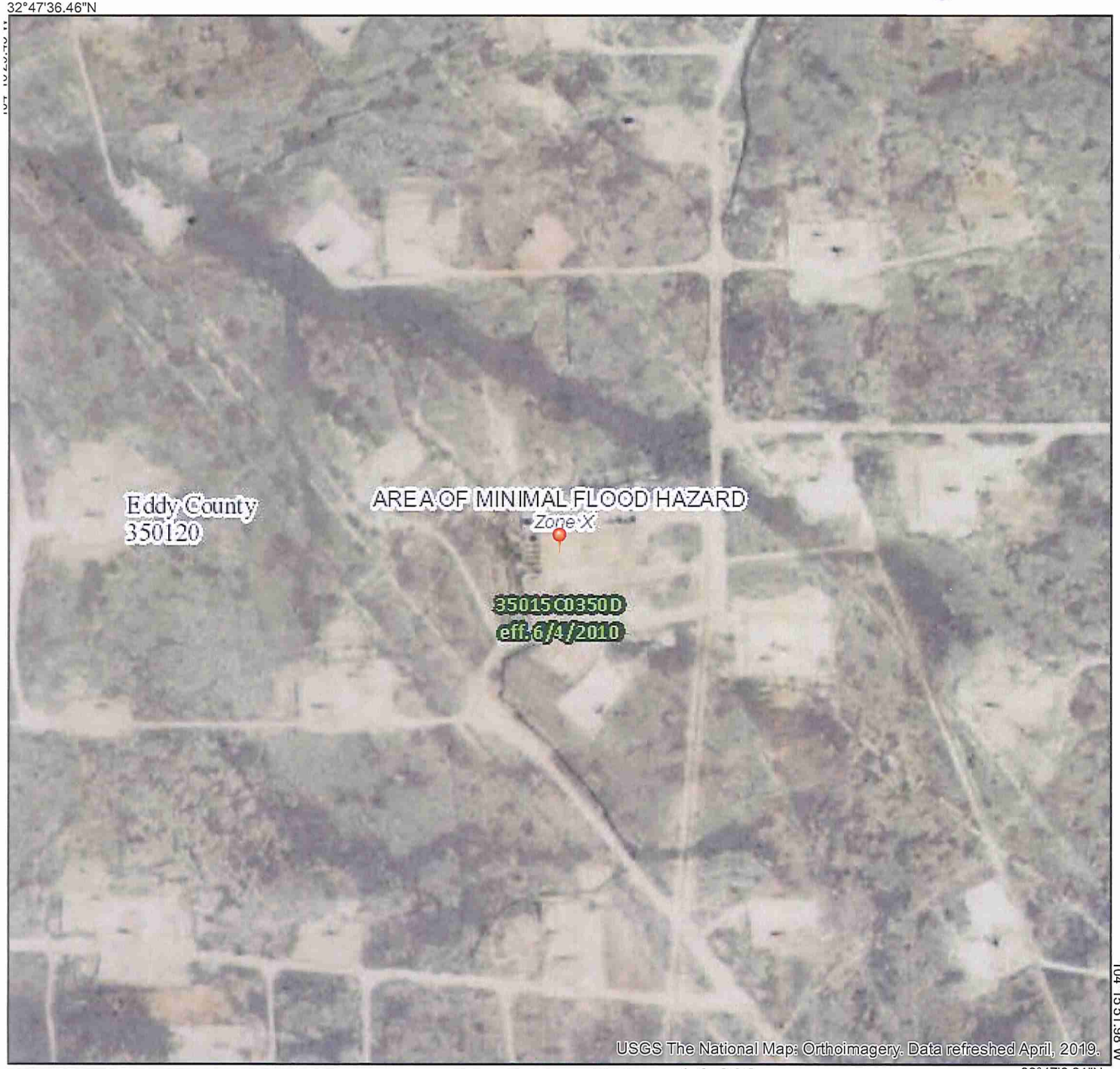
Data Source Information

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

National Flood Hazard Layer FIRMette

FEMA

32°47'36.46"N



104°15'51.98"W

32°47'6.21"N

Feet 0 500 1,000 1,500 2,000

1:6,000

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag 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*

OTHER AREAS
- 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

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

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximat point selected by the user and does not represe 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 1/23/2020 at 2:03:41 PM 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 unmodernized areas cannot be used for regulatory purposes.

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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	NRM2004941164
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 Eagle 33/34 Federal Battery	Site Type Production Facility
Date Release Discovered 1-8-20	API#

Unit Letter	Section	Township	Range	County
K	34	17S	27E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released 260 bbl	Volume Recovered 150 bbl
☐ Produced Water	Volume Released	Volume Recovered
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ 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: Lact Services went out to Lime Rock Resources Eagle 33/34 Federal Battery to do maintenance on the lact unit. Error from Lact's technician resulted in a 260 bbl loss of oil out of the lact unit. All fluids were contained within the berm of the battery. Vac trucks were initially dispatched as well as an emergency 1-call placed to begin initial cleanup measures. A total recovered volume of oil was 150 bbls.

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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? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
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

☒ The source of the release 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 not 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
Title: Production Superintendent

Signature: Mike Barrett
Date: 2-6-20

email: mbarrett@limerockresources.com
Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus
Date: 2/18/2020

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2004941164
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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?	50 (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.

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State of New Mexico
Oil Conservation Division

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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: Mike Barrett

Date: 2-6-20

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus

Date: 2/18/2020

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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
Title: Production Superintendent

Signature: Mike Barrett
Date: 2-6-20

email: mbarrett@limerockresources.com
Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus
Date: 02/18/2020

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

Signature: _____
Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2004941164
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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: Mike Barrett Date: 2-6-20

email: mbarrett@limerockresources.com Telephone: 575-365-9724

OCD Only

Received by: Ramona Marcus Date: 02/18/2020

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

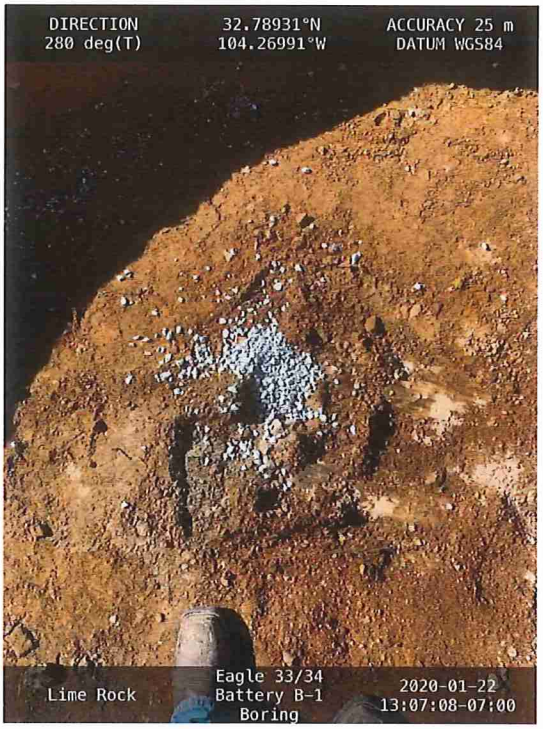
Closure Approved by: _____ Date: _____

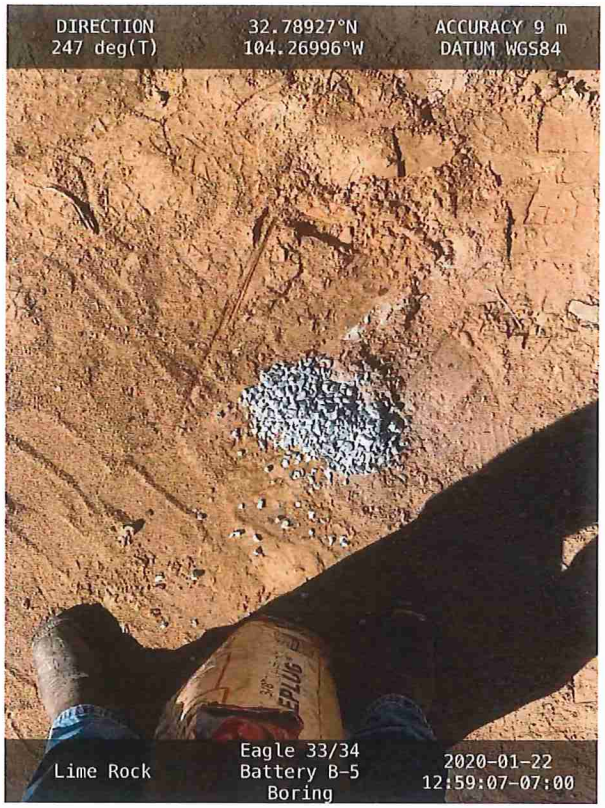
Printed Name: _____ Title: _____

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Eagle 33/34 Federal Battery Geotagged Photos of Boring Event





APPENDIX V

LABORATORY DATA

NRM2004941164

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 31, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Eagle 33 34 Battery OrderNo.: 2001967

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 47 sample(s) on 1/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-001 **Matrix:** SOIL

Client Sample ID: B-1 0-1'
Collection Date: 1/22/2020 11:30:00 AM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	150	60		mg/Kg	20	1/27/2020 10:56:41 PM	50074
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	5100	200		mg/Kg	50	1/27/2020 3:39:41 PM	G66104
Surr: BFB	96.2	70-130		%Rec	50	1/27/2020 3:39:41 PM	G66104
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	14000	410		mg/Kg	50	1/28/2020 8:21:09 AM	50065
Motor Oil Range Organics (MRO)	5100	2100		mg/Kg	50	1/28/2020 8:21:09 AM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 8:21:09 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	48	1.0		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Toluene	230	4.1		mg/Kg	100	1/28/2020 3:36:27 PM	R66149
Ethylbenzene	140	2.0		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Xylenes, Total	220	4.1		mg/Kg	50	1/27/2020 3:39:41 PM	R66104
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: 4-Bromofluorobenzene	75.3	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: Dibromofluoromethane	96.0	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104
Surr: Toluene-d8	97.8	70-130		%Rec	50	1/27/2020 3:39:41 PM	R66104

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-002 **Matrix:** SOIL

Client Sample ID: B-1 2-3'
Collection Date: 1/22/2020 11:30:00 AM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	5100	89		mg/Kg	20	1/28/2020 4:05:03 PM	G66149
Surr: BFB	92.7	70-130		%Rec	20	1/28/2020 4:05:03 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	11000	480		mg/Kg	50	1/28/2020 8:30:15 AM	50065
Motor Oil Range Organics (MRO)	3400	2400		mg/Kg	50	1/28/2020 8:30:15 AM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 8:30:15 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	32	0.45		mg/Kg	20	1/28/2020 4:05:03 PM	R66149
Toluene	210	8.9		mg/Kg	200	1/29/2020 11:35:58 PM	S66161
Ethylbenzene	140	8.9		mg/Kg	200	1/29/2020 11:35:58 PM	S66161
Xylenes, Total	210	1.8		mg/Kg	20	1/28/2020 4:05:03 PM	R66149
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: 4-Bromofluorobenzene	56.7	70-130	S	%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: Dibromofluoromethane	93.2	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149
Surr: Toluene-d8	96.4	70-130		%Rec	20	1/28/2020 4:05:03 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-003 **Matrix:** SOIL

Client Sample ID: B-1 4'
Collection Date: 1/22/2020 11:30:00 AM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	1/28/2020 5:02:17 PM	G66149
Surr: BFB	97.0	70-130		%Rec	1	1/28/2020 5:02:17 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	56	9.4		mg/Kg	1	1/28/2020 12:28:39 PM	50065
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/28/2020 12:28:39 PM	50065
Surr: DNOP	97.2	55.1-146		%Rec	1	1/28/2020 12:28:39 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.020		mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Toluene	ND	0.040		mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Ethylbenzene	ND	0.040		mg/Kg	1	1/28/2020 5:02:17 PM	R66149
Xylenes, Total	ND	0.080		mg/Kg	1	1/28/2020 5:02:17 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-011 **Matrix:** SOIL

Client Sample ID: B-2 0-1'
Collection Date: 1/22/2020 12:00:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	1/28/2020 1:25:34 AM	50074
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	6100	420		mg/Kg	100	1/28/2020 5:59:21 PM	G66149
Surr: BFB	91.7	70-130		%Rec	100	1/28/2020 5:59:21 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	13000	460		mg/Kg	50	1/28/2020 2:38:24 PM	50065
Motor Oil Range Organics (MRO)	4700	2300		mg/Kg	50	1/28/2020 2:38:24 PM	50065
Surr: DNOP	0	55.1-146	S	%Rec	50	1/28/2020 2:38:24 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	64	2.1		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Toluene	300	4.2		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Ethylbenzene	180	4.2		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Xylenes, Total	280	8.4		mg/Kg	100	1/28/2020 5:59:21 PM	R66149
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: Dibromofluoromethane	95.0	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149
Surr: Toluene-d8	94.4	70-130		%Rec	100	1/28/2020 5:59:21 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-012 **Matrix:** SOIL

Client Sample ID: B-2 2-3'
Collection Date: 1/22/2020 12:00:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	210	20		mg/Kg	5	1/28/2020 6:27:53 PM	G66149
Surr: BFB	88.2	70-130		%Rec	5	1/28/2020 6:27:53 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	1100	48		mg/Kg	5	1/29/2020 10:08:34 AM	50065
Motor Oil Range Organics (MRO)	430	240		mg/Kg	5	1/29/2020 10:08:34 AM	50065
Surr: DNOP	135	55.1-146		%Rec	5	1/29/2020 10:08:34 AM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	0.17	0.099		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Toluene	2.2	0.20		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Ethylbenzene	3.0	0.20		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Xylenes, Total	5.5	0.40		mg/Kg	5	1/28/2020 6:27:53 PM	R66149
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: 4-Bromofluorobenzene	63.5	70-130	S	%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: Dibromofluoromethane	96.9	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149
Surr: Toluene-d8	92.9	70-130		%Rec	5	1/28/2020 6:27:53 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-013 **Matrix:** SOIL

Client Sample ID: B-2 4'
Collection Date: 1/22/2020 12:00:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/27/2020 10:18:33 PM	G66104
Surr: BFB	98.0	70-130		%Rec	1	1/27/2020 10:18:33 PM	G66104
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	1/28/2020 2:56:28 PM	50065
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2020 2:56:28 PM	50065
Surr: DNOP	87.1	55.1-146		%Rec	1	1/28/2020 2:56:28 PM	50065

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-021 **Matrix:** SOIL

Client Sample ID: B-3 0-1'
Collection Date: 1/22/2020 12:25:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	350	59		mg/Kg	20	1/28/2020 4:16:06 PM	50094
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	1900	160		mg/Kg	50	1/28/2020 6:56:12 PM	G66149
Surr: BFB	90.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	1500	90		mg/Kg	10	1/28/2020 3:51:34 PM	50065
Motor Oil Range Organics (MRO)	470	450		mg/Kg	10	1/28/2020 3:51:34 PM	50065
Surr: DNOP	0	55.1-146	S	%Rec	10	1/28/2020 3:51:34 PM	50065
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	35	0.79		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Toluene	110	1.6		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Ethylbenzene	52	1.6		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Xylenes, Total	77	3.1		mg/Kg	50	1/28/2020 6:56:12 PM	R66149
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: Dibromofluoromethane	94.0	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149
Surr: Toluene-d8	93.9	70-130		%Rec	50	1/28/2020 6:56:12 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-022 **Matrix:** SOIL

Client Sample ID: B-3 2-3'
Collection Date: 1/22/2020 12:25:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/28/2020 4:00:47 PM	50065
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/28/2020 4:00:47 PM	50065
Surr: DNOP	85.0	55.1-146		%Rec	1	1/28/2020 4:00:47 PM	50065
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	1/27/2020 4:48:42 PM	G66097
Surr: BFB	86.2	66.6-105		%Rec	5	1/27/2020 4:48:42 PM	G66097
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.11	0.086		mg/Kg	5	1/30/2020 9:35:32 AM	50149
Toluene	ND	0.17		mg/Kg	5	1/30/2020 9:35:32 AM	50149
Ethylbenzene	ND	0.17		mg/Kg	5	1/30/2020 9:35:32 AM	50149
Xylenes, Total	ND	0.34		mg/Kg	5	1/30/2020 9:35:32 AM	50149
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	5	1/30/2020 9:35:32 AM	50149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-041 **Matrix:** SOIL

Client Sample ID: B-4 0-1'
Collection Date: 1/22/2020 12:55:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	99	60		mg/Kg	20	1/29/2020 11:08:52 AM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	5100	520		mg/Kg	100	1/28/2020 7:53:11 PM	G66149
Surr: BFB	91.8	70-130		%Rec	100	1/28/2020 7:53:11 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	16000	990		mg/Kg	100	1/28/2020 6:18:42 PM	50066
Motor Oil Range Organics (MRO)	5800	4900		mg/Kg	100	1/28/2020 6:18:42 PM	50066
Surr: DNOP	0	55.1-146	S	%Rec	100	1/28/2020 6:18:42 PM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	59	2.6		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Toluene	230	5.2		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Ethylbenzene	130	5.2		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Xylenes, Total	200	10		mg/Kg	100	1/28/2020 7:53:11 PM	R66149
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: Dibromofluoromethane	99.9	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149
Surr: Toluene-d8	97.3	70-130		%Rec	100	1/28/2020 7:53:11 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-042 **Matrix:** SOIL

Client Sample ID: B-4 2-3'
Collection Date: 1/22/2020 12:55:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	51	8.8		mg/Kg	1	1/29/2020 10:45:11 AM	50066
Motor Oil Range Organics (MRO)	100	44		mg/Kg	1	1/29/2020 10:45:11 AM	50066
Surr: DNOP	96.0	55.1-146		%Rec	1	1/29/2020 10:45:11 AM	50066
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	1/27/2020 9:30:14 PM	G66097
Surr: BFB	89.3	66.6-105		%Rec	5	1/27/2020 9:30:14 PM	G66097
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.25	0.087		mg/Kg	5	1/30/2020 9:58:57 AM	50149
Toluene	0.18	0.17		mg/Kg	5	1/30/2020 9:58:57 AM	50149
Ethylbenzene	ND	0.17		mg/Kg	5	1/30/2020 9:58:57 AM	50149
Xylenes, Total	ND	0.35		mg/Kg	5	1/30/2020 9:58:57 AM	50149
Surr: 4-Bromofluorobenzene	89.9	80-120		%Rec	5	1/30/2020 9:58:57 AM	50149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-043 **Matrix:** SOIL

Client Sample ID: B-4 4'
Collection Date: 1/22/2020 12:55:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/28/2020 6:36:51 PM	50066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/28/2020 6:36:51 PM	50066
Surr: DNOP	98.2	55.1-146		%Rec	1	1/28/2020 6:36:51 PM	50066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	1/27/2020 9:53:40 PM	G66097
Surr: BFB	83.8	66.6-105		%Rec	5	1/27/2020 9:53:40 PM	G66097

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: B-5 0-1'
Project: Eagle 33 34 Battery
Collection Date: 1/22/2020 1:15:00 PM
Lab ID: 2001967-025 **Matrix:** SOIL **Received Date:** 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	2000	60		mg/Kg	20	1/28/2020 4:08:42 PM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	4.0	3.8		mg/Kg	1	1/28/2020 7:24:41 PM	G66149
Surr: BFB	93.7	70-130		%Rec	1	1/28/2020 7:24:41 PM	G66149
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	270	85		mg/Kg	10	1/28/2020 5:14:44 PM	50066
Motor Oil Range Organics (MRO)	440	430		mg/Kg	10	1/28/2020 5:14:44 PM	50066
Surr: DNOP	0	55.1-146	S	%Rec	10	1/28/2020 5:14:44 PM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	0.020	0.019		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Toluene	0.14	0.038		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Ethylbenzene	0.11	0.038		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Xylenes, Total	0.18	0.076		mg/Kg	1	1/28/2020 7:24:41 PM	R66149
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: Dibromofluoromethane	91.3	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149
Surr: Toluene-d8	96.8	70-130		%Rec	1	1/28/2020 7:24:41 PM	R66149

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-026 **Matrix:** SOIL

Client Sample ID: B-5 2'
Collection Date: 1/22/2020 1:15:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	140	60		mg/Kg	20	1/28/2020 4:21:06 PM	50096
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/28/2020 5:23:57 PM	50066
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2020 5:23:57 PM	50066
Surr: DNOP	91.6	55.1-146		%Rec	1	1/28/2020 5:23:57 PM	50066
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	1/27/2020 6:22:36 PM	G66097
Surr: BFB	87.6	66.6-105		%Rec	5	1/27/2020 6:22:36 PM	G66097

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **1/31/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-031 **Matrix:** SOIL

Client Sample ID: B-6 0-1'
Collection Date: 1/22/2020 1:35:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	2300	150		mg/Kg	50	1/29/2020 10:44:04 AM	50096
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	1/28/2020 4:27:08 AM	G66104
Surr: BFB	93.5	70-130		%Rec	1	1/28/2020 4:27:08 AM	G66104
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	98	19		mg/Kg	2	1/29/2020 10:36:03 AM	50066
Motor Oil Range Organics (MRO)	170	97		mg/Kg	2	1/29/2020 10:36:03 AM	50066
Surr: DNOP	92.9	55.1-146		%Rec	2	1/29/2020 10:36:03 AM	50066
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.021		mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Toluene	ND	0.041		mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Ethylbenzene	ND	0.041		mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Xylenes, Total	ND	0.083		mg/Kg	1	1/28/2020 4:27:08 AM	R66104
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: Dibromofluoromethane	94.5	70-130		%Rec	1	1/28/2020 4:27:08 AM	R66104
Surr: Toluene-d8	92.9	70-130		%Rec	1	1/28/2020 4:27:08 AM	R66104

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

Qualifiers:

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

NRM2004941164

Analytical Report
Lab Order **2001967**
Date Reported: **2/12/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Eagle 33 34 Battery
Lab ID: 2001967-032 **Matrix:** SOIL

Client Sample ID: B-6 2-3'
Collection Date: 1/22/2020 1:35:00 PM
Received Date: 1/24/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	120	60		mg/Kg	20	1/27/2020 2:40:01 PM	50057
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/27/2020 9:46:29 PM	50047
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2020 9:46:29 PM	50047
Surr: DNOP	87.8	55.1-146		%Rec	1	1/27/2020 9:46:29 PM	50047
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2020 3:10:02 AM	50043
Surr: BFB	79.4	66.6-105		%Rec	1	1/27/2020 3:10:02 AM	50043

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

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001967

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: MB-50057	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 50057	RunNo: 66103							
Prep Date: 1/27/2020	Analysis Date: 1/27/2020	SeqNo: 2270255	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-50057	SampType: lcs	TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 50057	RunNo: 66103							
Prep Date: 1/27/2020	Analysis Date: 1/27/2020	SeqNo: 2270256	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: MB-50074	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 50074	RunNo: 66105							
Prep Date: 1/27/2020	Analysis Date: 1/27/2020	SeqNo: 2270651	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-50074	SampType: lcs	TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 50074	RunNo: 66105							
Prep Date: 1/27/2020	Analysis Date: 1/27/2020	SeqNo: 2270652	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID: MB-50096	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 50096	RunNo: 66124							
Prep Date: 1/28/2020	Analysis Date: 1/28/2020	SeqNo: 2271901	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-50096	SampType: lcs	TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 50096	RunNo: 66124							
Prep Date: 1/28/2020	Analysis Date: 1/28/2020	SeqNo: 2271902	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **MB-50094**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **50094**	RunNo: **66125**							
Prep Date: **1/28/2020**	Analysis Date: **1/28/2020**	SeqNo: **2272099**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50094**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **50094**	RunNo: **66125**							
Prep Date: **1/28/2020**	Analysis Date: **1/28/2020**	SeqNo: **2272100**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID: **MB-50105**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **50105**	RunNo: **66125**							
Prep Date: **1/28/2020**	Analysis Date: **1/28/2020**	SeqNo: **2272129**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50105**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **50105**	RunNo: **66125**							
Prep Date: **1/28/2020**	Analysis Date: **1/28/2020**	SeqNo: **2272130**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **LCS-50047**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **50047**	RunNo: **66092**
Prep Date: **1/25/2020**	Analysis Date: **1/27/2020**	SeqNo: **2270196** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	109	63.9	124			
Surr: DNOP	4.2		5.000		84.5	55.1	146			

Sample ID: **MB-50047**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **50047**	RunNo: **66092**
Prep Date: **1/25/2020**	Analysis Date: **1/27/2020**	SeqNo: **2270198** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.7	55.1	146			

Sample ID: **LCS-50065**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **50065**	RunNo: **66119**
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271412** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.7	63.9	124			
Surr: DNOP	3.7		5.000		73.3	55.1	146			

Sample ID: **MB-50065**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **50065**	RunNo: **66119**
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271414** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.2	55.1	146			

Sample ID: **LCS-50066**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **50066**	RunNo: **66119**
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271798** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	63.9	124			
Surr: DNOP	5.0		5.000		100	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **MB-50066**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **50066**	RunNo: **66119**
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271800** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	55.1	146			

Sample ID: **LCS-50086**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **50086**	RunNo: **66140**
Prep Date: **1/28/2020**	Analysis Date: **1/29/2020**	SeqNo: **2271929** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.4	55.1	146			

Sample ID: **MB-50086**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **50086**	RunNo: **66140**
Prep Date: **1/28/2020**	Analysis Date: **1/29/2020**	SeqNo: **2271930** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	55.1	146			

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **MB-50043**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **50043**	RunNo: **66068**
Prep Date: **1/24/2020**	Analysis Date: **1/27/2020**	SeqNo: **2269049** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	770		1000		77.0	66.6	105			

Sample ID: **LCS-50043**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **50043**	RunNo: **66068**
Prep Date: **1/24/2020**	Analysis Date: **1/27/2020**	SeqNo: **2269050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.0	80	120			
Surr: BFB	890		1000		89.0	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G66097**	RunNo: **66097**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270048** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	80	120			
Surr: BFB	990		1000		98.8	66.6	105			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G66126**	RunNo: **66126**
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2271700** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.7	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G66126**	RunNo: **66126**
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2271701** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	80	120			
Surr: BFB	990		1000		99.0	66.6	105			

Sample ID: **2001967-022ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **B-3 2-3'**	Batch ID: **G66097**	RunNo: **66126**
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2271704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001967

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **2001967-022ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **B-3 2-3'** Batch ID: **G66097** RunNo: **66126**

Prep Date: Analysis Date: **1/28/2020** SeqNo: **2271704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	78	17	85.91	0	91.2	69.1	142			
Surr: BFB	3200		3436		93.7	66.6	105			

Sample ID: **2001967-022amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **B-3 2-3'** Batch ID: **G66097** RunNo: **66126**

Prep Date: Analysis Date: **1/28/2020** SeqNo: **2271705** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	77	17	85.91	0	89.4	69.1	142	2.04	20	
Surr: BFB	3200		3436		94.5	66.6	105	0	0	

Sample ID: **mb-50070** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **50070** RunNo: **66126**

Prep Date: **1/27/2020** Analysis Date: **1/28/2020** SeqNo: **2271722** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		85.8	66.6	105			

Sample ID: **lcs-50070** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **50070** RunNo: **66126**

Prep Date: **1/27/2020** Analysis Date: **1/28/2020** SeqNo: **2271723** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.4	66.6	105			

Sample ID: **mb-50149** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **50149** RunNo: **66183**

Prep Date: **1/29/2020** Analysis Date: **1/30/2020** SeqNo: **2274174** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	810		1000		80.8	66.6	105			

Sample ID: **lcs-50149** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **50149** RunNo: **66183**

Prep Date: **1/29/2020** Analysis Date: **1/30/2020** SeqNo: **2274175** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.2	66.6	105			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **mb-50144**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **50144**	RunNo: **66183**
Prep Date: **1/29/2020**	Analysis Date: **1/31/2020**	SeqNo: **2274193** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	760		1000		76.0	66.6	105			

Sample ID: **lcs-50144**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **50144**	RunNo: **66183**
Prep Date: **1/29/2020**	Analysis Date: **1/31/2020**	SeqNo: **2274194** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	850		1000		85.3	66.6	105			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **MB-50043**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **50043**	RunNo: **66068**							
Prep Date: **1/24/2020**	Analysis Date: **1/27/2020**	SeqNo: **2269077**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.6	80	120			

Sample ID: **LCS-50043**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **50043**	RunNo: **66068**							
Prep Date: **1/24/2020**	Analysis Date: **1/27/2020**	SeqNo: **2269078**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	80	120			

Sample ID: **mb-50070**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **50070**	RunNo: **66126**							
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271744**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Sample ID: **LCS-50070**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **50070**	RunNo: **66126**							
Prep Date: **1/27/2020**	Analysis Date: **1/28/2020**	SeqNo: **2271745**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Sample ID: **mb-50149**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **50149**	RunNo: **66183**							
Prep Date: **1/29/2020**	Analysis Date: **1/30/2020**	SeqNo: **2274219**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.3	80	120			

Sample ID: **LCS-50149**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **50149**	RunNo: **66183**							
Prep Date: **1/29/2020**	Analysis Date: **1/30/2020**	SeqNo: **2274220**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	80	120			

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **LCS-50149**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **50149**	RunNo: **66183**
Prep Date: **1/29/2020**	Analysis Date: **1/30/2020**	SeqNo: **2274220** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	80	120			

Sample ID: **mb-50144**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **50144**	RunNo: **66183**
Prep Date: **1/29/2020**	Analysis Date: **1/31/2020**	SeqNo: **2274238** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	80	120			

Sample ID: **LCS-50144**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **50144**	RunNo: **66183**
Prep Date: **1/29/2020**	Analysis Date: **1/31/2020**	SeqNo: **2274239** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **R66104**	RunNo: **66104**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270317** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		93.0	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.3	70	130			
Surr: Toluene-d8	0.48		0.5000		96.1	70	130			

Sample ID: **2001967-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **B-1 0-1'**	Batch ID: **R66104**	RunNo: **66104**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270319** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	96	1.0	40.95	48.08	117	70	130			
Toluene	280	2.0	40.95	241.3	86.6	70	130			E
Surr: 1,2-Dichloroethane-d4	21		20.48		100	70	130			
Surr: 4-Bromofluorobenzene	14		20.48		70.5	70	130			
Surr: Dibromofluoromethane	21		20.48		100	70	130			
Surr: Toluene-d8	19		20.48		94.2	70	130			

Sample ID: **2001967-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **B-1 0-1'**	Batch ID: **R66104**	RunNo: **66104**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270320** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	89	1.0	40.95	48.08	98.8	70	130	8.21	20	
Toluene	270	2.0	40.95	241.3	58.7	70	130	4.21	20	ES
Surr: 1,2-Dichloroethane-d4	21		20.48		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	15		20.48		70.9	70	130	0	0	
Surr: Dibromofluoromethane	20		20.48		96.7	70	130	0	0	
Surr: Toluene-d8	20		20.48		96.9	70	130	0	0	

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **R66104**	RunNo: **66104**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **R66104**	RunNo: **66104**
Prep Date:	Analysis Date: **1/27/2020**	SeqNo: **2270326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.7	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.6	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **R66149**	RunNo: **66149**
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2272307** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	70	130			
Toluene	0.91	0.050	1.000	0	90.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.5	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.2	70	130			
Surr: Toluene-d8	0.46		0.5000		91.1	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **R66149**	RunNo: **66149**
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2272326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8	0.46		0.5000		92.7	70	130			

Sample ID: **lcs-50070**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **50070**	RunNo: **66161**
Prep Date: **1/27/2020**	Analysis Date: **1/29/2020**	SeqNo: **2272725** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.8	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.9	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.8	70	130			
Surr: Toluene-d8	0.49		0.5000		97.1	70	130			

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **mb-50070**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **50070**	RunNo: **66161**
Prep Date: **1/27/2020**	Analysis Date: **1/29/2020**	SeqNo: **2272726** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.9	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.5	70	130			
Surr: Toluene-d8	0.50		0.5000		99.8	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **S66161**	RunNo: **66161**
Prep Date:	Analysis Date: **1/29/2020**	SeqNo: **2273317** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.92	0.050	1.000	0	92.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.1	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.48		0.5000		95.5	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **S66161**	RunNo: **66161**
Prep Date:	Analysis Date: **1/29/2020**	SeqNo: **2273318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.5	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.4	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.0	70	130			
Surr: Toluene-d8	0.49		0.5000		98.6	70	130			

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001967

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS	Batch ID: G66104	RunNo: 66104
Prep Date:	Analysis Date: 1/27/2020	SeqNo: 2270329 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.2	70	130			
Surr: BFB	470		500.0		93.5	70	130			

Sample ID: 2001967-002a ms	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: B-1 2-3'	Batch ID: G66104	RunNo: 66104
Prep Date:	Analysis Date: 1/27/2020	SeqNo: 2270334 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	4800	45	223.6	4748	4.96	70	130			ES
Surr: BFB	3900		4472		87.5	70	130			

Sample ID: 2001967-002a msd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: B-1 2-3'	Batch ID: G66104	RunNo: 66104
Prep Date:	Analysis Date: 1/27/2020	SeqNo: 2270335 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	4800	45	223.6	4748	29.7	70	130	1.15	20	ES
Surr: BFB	4000		4472		89.3	70	130	0	0	

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: G66104	RunNo: 66104
Prep Date:	Analysis Date: 1/27/2020	SeqNo: 2270354 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.4	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS	Batch ID: G66149	RunNo: 66149
Prep Date:	Analysis Date: 1/28/2020	SeqNo: 2272331 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.8	70	130			
Surr: BFB	480		500.0		95.3	70	130			

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: G66149	RunNo: 66149
Prep Date:	Analysis Date: 1/28/2020	SeqNo: 2272362 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

NRM2004941164

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001967**

31-Jan-20

Client: Talon Artesia

Project: Eagle 33 34 Battery

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G66149**	RunNo: **66149**							
Prep Date:	Analysis Date: **1/28/2020**	SeqNo: **2272362**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.7	70	130			

Sample ID: **lcs-50070**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **50070**	RunNo: **66161**							
Prep Date: **1/27/2020**	Analysis Date: **1/29/2020**	SeqNo: **2273355**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	480		500.0		95.9	70	130			

Sample ID: **mb-50070**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**							
Client ID: **PBS**	Batch ID: **50070**	RunNo: **66161**							
Prep Date: **1/27/2020**	Analysis Date: **1/29/2020**	SeqNo: **2273356**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	470		500.0		94.3	70	130			

Qualifiers:

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

NRM2004941164

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 2001967 RcptNo: 1

Received By: Desiree Dominguez 1/24/2020 9:15:00 AM DD

Completed By: Leah Baca 1/24/2020 9:42:57 AM Leah Baca

Reviewed By: DAD 1/24/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: SR 1/24/20

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				
2	4.3	Good				

(3)

Chain-of-Custody Record

Client: Talon

Mailing Address: 408 W. Texas
Artesia, NM 88210

Phone #: 575-631-6977

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 3-Day
☑ Standard ☐ Rush

Project Name: Eagle 33/34 Battery

Project #: 701307.130.01

Project Manager: Chris Jones

Sampler:

On Ice: ☑ Yes ☐ No 4.5+0.0=4.5°C

Sample Temperature: 4.3-0.0=4.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides				Air Bubbles (Y or N)
1-22-20	1130	Soil	B-1 0-1'	JAR	Cool	2001967-001	✓		✓									✓				
	1130		B-1 2-3'			-002																
	1130		B-1 4'			-003																
	1135		B-1 5'			-004																
	1135		B-1 6'			-005																
	1135		B-1 7'			-006																
	1145		B-1 8'			-007																
	1145		B-1 9'			-008																
	1145		B-1 10'			-009																
	1145		B-1 11' Refusal			010																
	1200		B-2 0-1'			-011																
	1200		B-2 2-3'			-012																

Date:	Time:	Relinquished by:	Received by:	Date	Time
	1000			1/23/20	1000
Date: 1/23/20	Time: 1900	Relinquished by:	Received by: FED Courier	Date 1/24/20	Time 9:15

Remarks: Run Each Sample Analysis Until TPH under 100, Chlorides under 600 & BTEX under 50

NRM2004941164

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Chain-of-Custody Record

Client: Talon

Mailing Address: 408 W. Texas
Artesia, NM 88210

Phone #: 575-631-6977

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 3-Day
☑ Standard ☐ Rush

Project Name:
Eagle 33/34 Battery

Project #:
701307.130.01

Project Manager:
Chris Jones

Sampler:
On Ice: ☑ Yes ☐ No 4.5+0.0=4.5°c

Sample Temperature: 4.3-0.0=4.3°c

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides	Air Bubbles (Y or N)
1-22-20	1200	Soil	B-2 4'	Jar	Cool	2001962-013	✓		✓									✓	
	1210		B-2 5'			-014													
	1210		B-2 6'			-015													
	1210		B-2 7'			-016													
	1210		B-2 8'			-017													
	1215		B-2 9'			-018													
	1215		B-2 10'			-019													
	1215		B-2 11' Refusal			-020													
	1225		B-3 0-1'			-021													
	1225		B-3 2-3'			-022													
	1225		B-3 4'			-023													
	1235		B-3 5'			-024													

Date:	Time:	Relinquished by:	Received by:	Date	Time
	1000			1/23/20	1000
1/23/20	1911		IDB Courier	1/24/20	9:15

Remarks:
Run Each sample Analysis Until TPH under 100, Chlorides under 600 & BTEX under 50

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NRM2004941164

Chain-of-Custody Record

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email or Fax#:

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Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time: 3-Day
☑ Standard ☐ Rush

Project Name: Eagle 33/34 Battery

Project #: 701307.130.01

Project Manager: Chris Jones

Sampler:
On Ice: ☑ Yes ☐ No 4.5-0.0=4.5°C
Sample Temperature: 4.3-0.0=4.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides				Air Bubbles (Y or N)
1-22-20	1115	Soil	B-5 0-1'	JAR	Cool	2001967-025	✓		✓									✓				
	1115		B-5 2'			-026																
	1115		B-5 3'			-027																
	1115		B-5 4'			-028																
	1125		B-5 5'			-029																
	1125		B-5 6' Refusal			-030																
	1135		B-6 0-1'			-031																
	1135		B-6 2-3'			-032																
	1135		B-6 4'			-033																
	1145		B-6 5'			-034																
	1145		B-6 6'			-035																
	1145		B-6 7' Refusal			-036																

Date:	Time:	Relinquished by:	Received by:	Date	Time
	1000			1/23/20	1000
1/23/20	1900		courier	1/24/20	9:15

Remarks:
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NRM2004941164

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email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 3-Day
☑ Standard ☐ Rush

Project Name: Eagle 33/34 Battery

Project #: 701307.130.01

Project Manager: Chris Jones

Sampler:
On Ice: ☑ Yes ☐ No 4.5+0.0=4.5°C

Sample Temperature: 4.3 -0.0 = 4.3°C

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Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides	Air Bubbles (Y or N)
1-22-20	1235	Soil	B-3 6'	JAR	Cool	2001967-037	✓		✓									✓	
	1235		B-3 7'			-038													
	1235		B-3 8' ~~Refusal~~			-039													
	1245		B-3 9' Refusal			-040													
	1255		B-4 0-1'			-041													
	1255		B-4 2-3'			-042													
	1255		B-4 4'			-043													
	105		B-4 5'			-044													
	105		B-4 6'			-045													
	105		B-4 7'			-046													
	105		B-4 8' Refusal			-047													
						0													

Date:	Time:	Relinquished by:	Received by:	Date	Time
	1000			1/23/20	1000
1/23/20	1900		Courier	1/24/20	9:15

Remarks:
Run Each sample Analysis Until TPH under 100, Chlorides under 600 & BTEX under 50

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

NRM2004941164