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TALON LPE

Remediation and Closure Report

Malco B Federal Battery
NMPA1827465907- * 2RP-4989

Prepared For:

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

Prepared By:

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

March 28, 2019

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

Subject: **Remediation and Closure Report**
Malco B Federal Battery
NMAP1827465258- * 2RP-4989

Dear Mr. Bratcher,

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

Site Information

The Malco B Fed Battery is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 06, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7794 North and -104.3168 West.

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

Ground Water and Site Ranking

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

Therefore the ranking for this site is a 20 based on the following:

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

Based upon the site ranking of 20, the New Mexico Oil and Conservation Division (NMOCD) Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 600 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On September 12, 2018, a 3-inch nipple connecting the header to the horizontal separator developed a hole resulting in the release of 200 barrels of mixed fluids onto the location breaching the berm and flowing into the pasture. An emergency one call was made, vacuum trucks, roustabout crews, a backhoe, dump trucks, and Talon personnel were dispatched to the site. The header was isolated, repairs were made, and 160 barrels of fluids were recovered. The roustabout crew began hand excavating around the equipment and lines. The backhoe started pushing up the contamination and initially disposed of 62 tons to Lea Land, LLC, an NMOCD approved facility. A site plan is presented in Appendix I.

On September 12, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities. Grab soil samples were collected utilizing a hand auger and backhoe until depths at which hard rock refusal was encountered. The analytical results are presented in the following data table.

Laboratory Results

See Appendix III for a complete report of laboratory results.

September 12, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)
S-1	0.5	ND	**2900**	ND	ND	ND
	1	ND	**3500**	ND	ND	ND
	2	ND	**3900**	ND	ND	ND
S-2	0.5	ND	**5000**	ND	**670**	**370**
	1	ND	**2600**	ND	**290**	**140**
	2	ND	**2400**	ND	**230**	**110**
S-3	0.5	ND	230	ND	**510**	**200**
	1	ND	210	ND	ND	ND
	2	ND	560	ND	ND	ND
S-4	0.5	ND	**3700**	ND	ND	ND
	1	ND	**1200**	ND	ND	ND
	2	ND	**2500**	ND	ND	ND
S-5	1	ND	**12000**	ND	ND	ND
	2	ND	**1900**	ND	ND	ND
S-6	1	ND	**6400**	ND	ND	ND

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)
S-7	1	ND	**11000**	ND	13	ND
S-8	0.5	1.6	**24000**	**37**	**440**	**160**
S-9	1	ND	**720**	ND	**750**	**400**
S-10	0	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND

ND- Analyte Not Detected

On September 13, 2018, Lime Rock continued the clean-up process around the equipment, lines, and location with their roustabout crew, backhoe, and dump trucks. Approximately 174 tons of impacted material was subsequently hauled to Lea Land.

On September 18-19, 2018, Lime Rock dispatched a hydrovac to excavate around the header and flowlines.

The location was completely excavated to depths of 2.5-feet deep and reconstructed by others. Additional sampling and excavation activities continued in the flow paths off location.

December 5, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-11	0	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND
S-12	0	ND	31	ND	ND	69
	0.5	ND	ND	ND	ND	ND
S-13	0	ND	ND	ND	ND	ND
	1	ND	380	ND	ND	ND
S-14	0	ND	160	ND	ND	ND
	1	ND	ND	ND	ND	ND
S-15	0	ND	**1700**	ND	ND	ND
	1	ND	**1700**	ND	ND	ND
S-16	0	ND	55	ND	14	50

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-17	0	ND	**14000**	ND	**120**	**110**
	1	ND	**9200**	ND	ND	ND
	2	ND	**8600**	ND	50	ND
	2.5	ND	**8700**	ND	ND	ND
S-18	0	ND	250	ND	ND	ND
	0.5	ND	**920**	ND	ND	ND
S-19	0	ND	**9600**	ND	ND	ND
	1	ND	**8800**	ND	ND	ND
	2	ND	**5300**	ND	ND	ND
	2.5	ND	**5100**	ND	ND	ND
S-20	3	ND	**8200**	ND	ND	ND
S-21	2.5	ND	190	ND	ND	ND
	3	ND	110	ND	ND	ND
S-22	3	ND	66	ND	ND	ND
S-23	2	ND	**1200**	ND	**2300**	**890**
S-24	2.5	ND	250	ND	ND	ND
	3	ND	84	ND	ND	ND
	3.5	ND	97	ND	ND	ND
S-25	0	ND	**6500**	ND	43	ND
	1	ND	**11000**	ND	ND	ND
	2	ND	**3100**	ND	ND	ND
S-26	0	ND	33	ND	11	ND
	1	ND	61	ND	ND	ND
S-27	0	ND	**14000**	ND	23	ND
	1	ND	**5600**	ND	ND	ND
	2	ND	**6100**	ND	ND	ND
	3	ND	**8500**	ND	ND	ND
	3.5	ND	**9700**	ND	ND	ND
	4	ND	**9400**	ND	ND	ND
S-28	0	ND	**2000**	ND	ND	ND
	1	ND	**9600**	ND	ND	ND

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-28	2	ND	**9700**	ND	ND	ND
	3	ND	**4500**	ND	ND	ND

ND- Analyte Not Detected

On December 21, 2018, Talon personnel returned to the location to obtain additional vertical and horizontal soil samples. The analytical results are presented in the following data table.

December 21, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
S-17	3	--	**3120**	--	--	--
	4	--	64	--	--	--
S-18	1	--	80	--	--	--
S-23	3	--	32	--	--	--
S-29	0	--	<16.0	--	--	--
	1	--	<16.0	--	--	--
S-30	0	--	<16.0	--	--	--
	1	--	32	--	--	--
S-31	0	--	64	--	--	--
S-32	0	--	16	--	--	--
	1	--	560	--	--	--
S-33	0	--	<16.0	--	--	--
	1	--	32	--	--	--
S-34	0	--	<16.0	--	--	--
	1	--	<16.0	--	--	--

(--) Analyte Not Tested

On January 15, 2019, Talon personnel returned to the location with a rotary drill rig to obtain borehole samples that were accessible with overhead power lines and flow lines. The analytical results are presented in the following data table.

January 15, 2019, Drill Rig Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)
B-1	3	--	130	--	--	--
	4	--	71	--	--	--
	6	--	45	--	--	--
	8	--	ND	--	--	--
	10	--	ND	--	--	--
B-2	3	--	290	ND	ND	ND
	5	--	150	ND	ND	ND
	10	--	ND	ND	ND	ND
B-3	3	--	**5700**	--	--	--
	5	--	210	--	--	--
	7	--	200	--	--	--
	10	--	51	--	--	--
B-4	3	--	110	--	--	--
	5	--	55	--	--	--
	7	--	ND	--	--	--
	10	--	ND	--	--	--
B-5	3	--	38	--	--	--
	5	--	49	--	--	--
	7	--	30	--	--	--
	10	--	ND	--	--	--
B-6	3	--	470	--	--	--
	5	--	**1300**	--	--	--
	7	--	290	--	--	--
	10	--	ND	--	--	--
B-7	3	--	74	--	--	--
	5	--	ND	--	--	--
	7	--	39	--	--	--
	10	--	35	--	--	--

(--) Analyte Not Tested

Remedial Actions Taken

- The impacted areas in the vicinity of S-1 through S-4 (location) were excavated to a depth of 2.5-feet deep.
- All impacted areas in the pasture were excavated to depths where vertical delineation samples were below NMOCD RRAL's or to depths at which hard rock refusal with an excavator was encountered.
- An air rotary drilling rig was mobilized and seven (7) borings (B1 thru B7) were advanced thru the rock to verify contaminates from this release did not penetrate the confining layer.
- All of the excavated material was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.

Proposed Completion Activities

- Because additional vertical depth excavation activities cannot be achieved and vertical impacts from the release have been delineated fully, on behalf of Lime Rock Resources we respectfully request permission to backfill the excavated areas.
- The excavated areas backfilled with locally obtained topsoil, machine compacted and contoured to match the surrounding terrain.
- The site will be seeded with BLM #1 seed blend which matches the soil survey from the United States Department of Agriculture, Natural Resources Conservation Services (Appendix II).
- A Final C-141 Form is also attached. See (Appendix V).

Closure

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

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

Respectfully submitted,

TALON/LPE

Chris Jones
Project Manager

David J. Adkins
District Manager

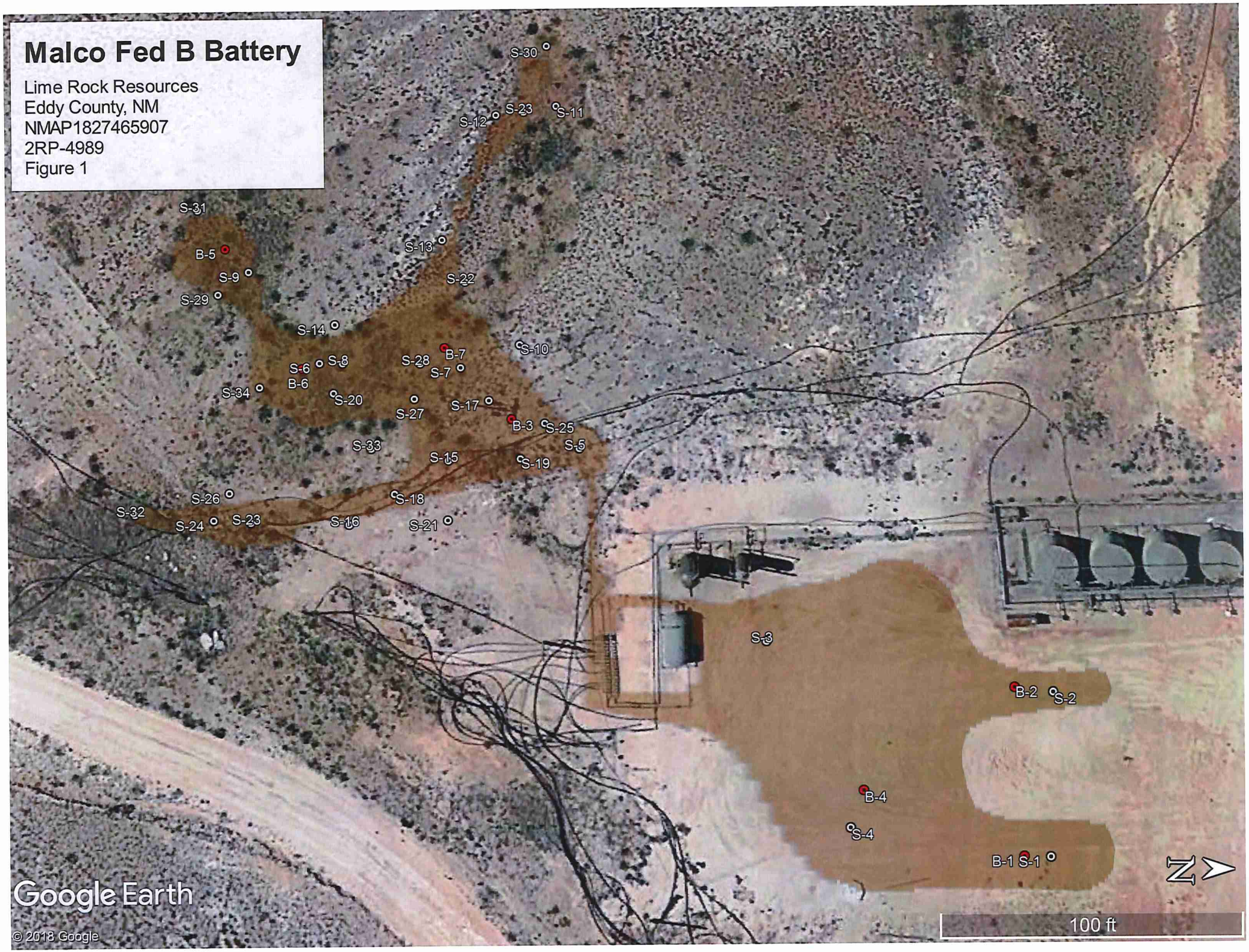
Attachments:
Appendix I Site Plan
Appendix II Groundwater Data, Soil Survey & FEMA Flood Zone
Appendix III Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Data

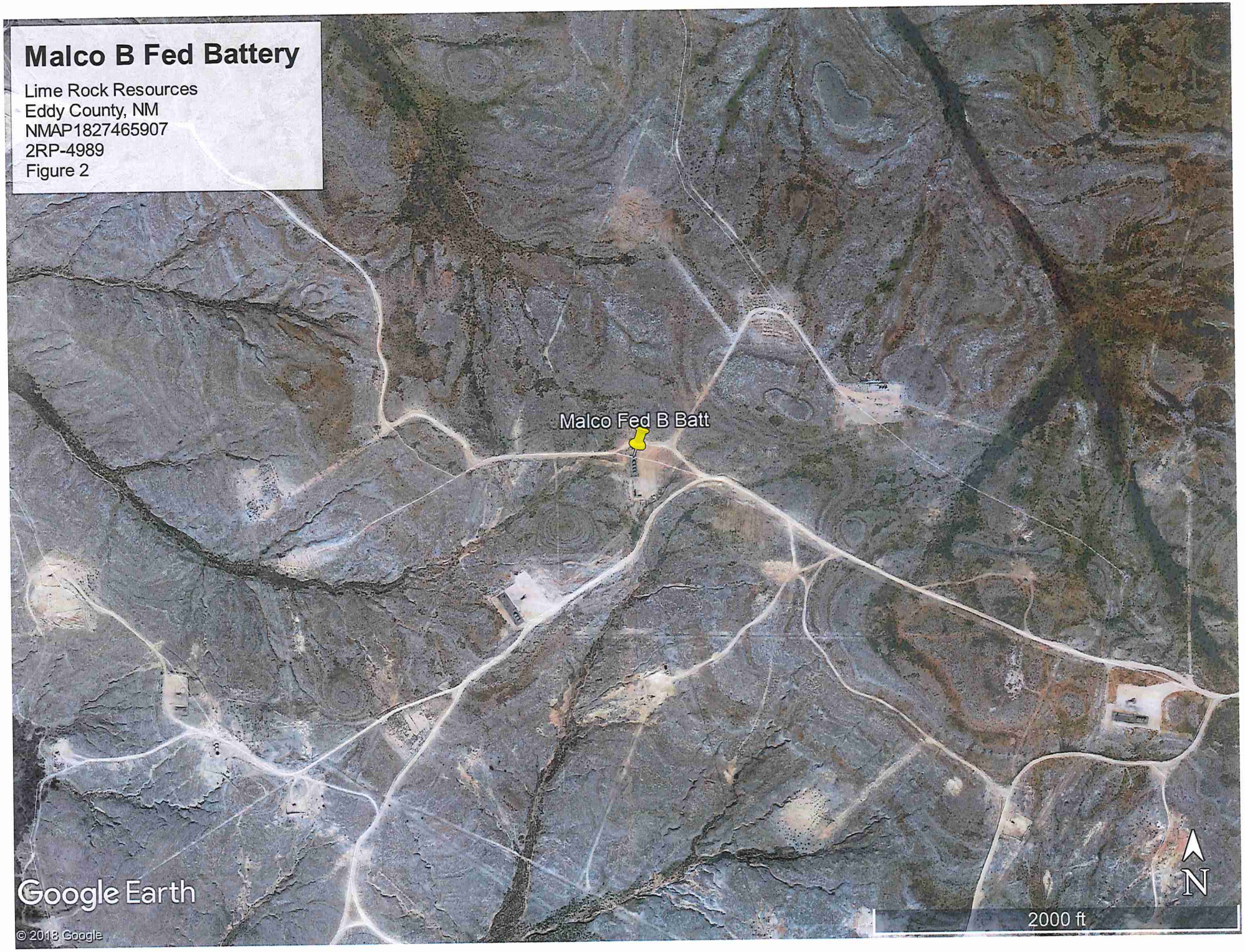
APPENDIX I

SITE PLAN

Malco Fed B Battery

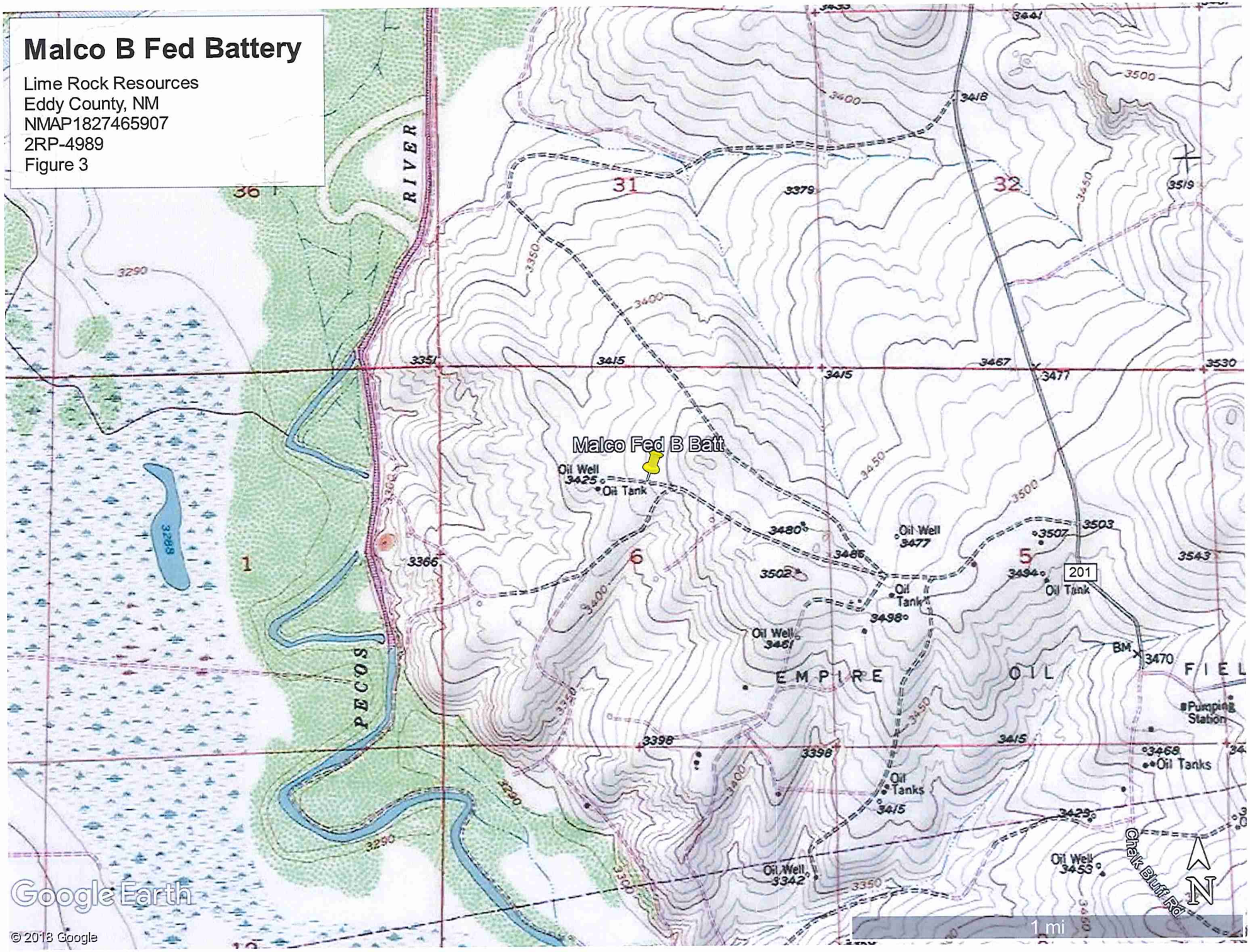
Lime Rock Resources
Eddy County, NM
NMAP1827465907
2RP-4989
Figure 1




Malco B Fed Battery
Lime Rock Resources
Eddy County, NM
NMAP1827465907
2RP-4989
Figure 2
Malco Fed B Batt
Google Earth
© 2018 Google
2000 ft
N

Malco B Fed Battery

Lime Rock Resources
Eddy County, NM
NMAP1827465907
2RP-4989
Figure 3



APPENDIX II

SOIL SURVEY
&
GROUNDWATER DATA
&
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 05989		RA	ED	3	2	4	01	18S	26E	562774	3626466*	1335	72	8	64
RA 03661		RA	ED	3	2	3	32	17S	27E	565186	3628038*	1565	330	140	190
RA 03664		RA	CH	3	2	3	32	17S	27E	565186	3628038*	1565	400	100	300
RA 02432		RA	ED	2	3	1	12	18S	26E	561764	3625443*	2731	100		
RA 03714		RA	CH	4	4	2	08	18S	27E	566212	3625253*	2856	381		

Average Depth to Water: **82 feet**

Minimum Depth: **8 feet**

Maximum Depth: **140 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 563981.557 **Northing (Y):** 3627037.574 **Radius:** 3000

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

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

3/19/19 10:01 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

GA—Gypsum land

Map Unit Setting

National map unit symbol: 1w4f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 66 degrees F
Frost-free period: 190 to 225 days
Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Ridges, hills, plains
Landform position (two-dimensional): 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

Reeves

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

Cottonwood

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

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 14, Sep 12, 2018

National Flood Hazard Layer FIRMette

FEMA

32°47'0.96"N

104°18'41.75"W

32°46'30.72"N

0 250 500 1,000 1,500 2,000 Feet 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 X*
- 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
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 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 approximate 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 3/19/2019 at 12:04:16 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.

APPENDIX III

FINAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources 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	NMAP1827465907
District RP	2RP-4989
Facility ID	fMAP1827465258
Application ID	pMAP1827465656

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)* NMAP1827465907
Contact mailing address 1111 Bagby St Ste 4600 Houston, TX 77002	

Location of Release Source

Latitude 32.7794 Longitude -104.3168
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Malco B Federal Battery	Site Type Production Facility
Date Release Discovered 9-12-18	API# *(if applicable)* fMAP1827465258

Unit Letter	Section	Township	Range	County
J	6	18S	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 (bbls) 10	Volume Recovered (bbls) 6
☒ Produced Water	Volume Released (bbls) 190	Volume Recovered (bbls) 154
	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

A 3" nipple that connects the header and FWKO developed a hole due to the fluid cut.

State of New Mexico
Oil Conservation Division

Incident ID	NMAP1827465907
District RP	2RP-4989
Facility ID	fMAP1827465258
Application ID	pMAP1827465656

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? The release was more than 25 barrels of produced water.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, David Adkins-Talon LPE to Mike Bratcher-NMOCD via phone call.	

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: Michael B.

Date: 9-17-18

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: MMM

Date: 10/01/18

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: Mike Barrett

Date: 3-21-19

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: Mike Barrett

Date: 3-21-19

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: Mike B

Date: 3-21-19

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____

Date: _____

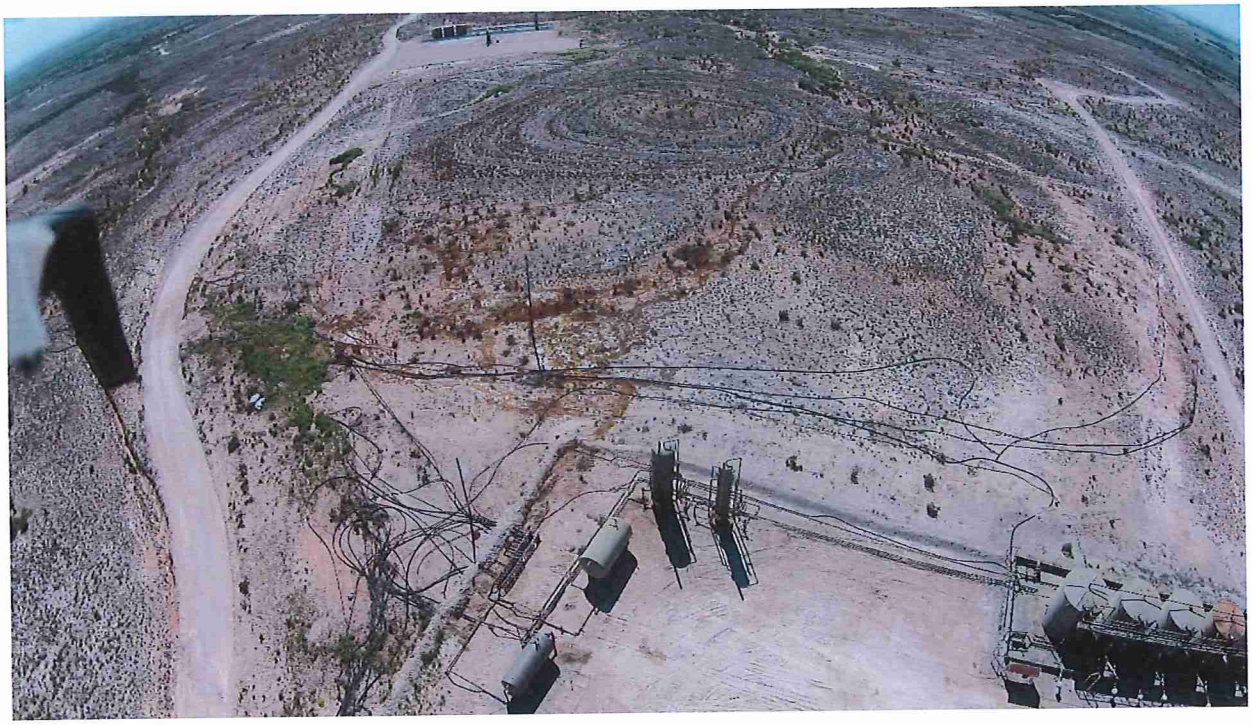
Printed Name: _____

Title: _____

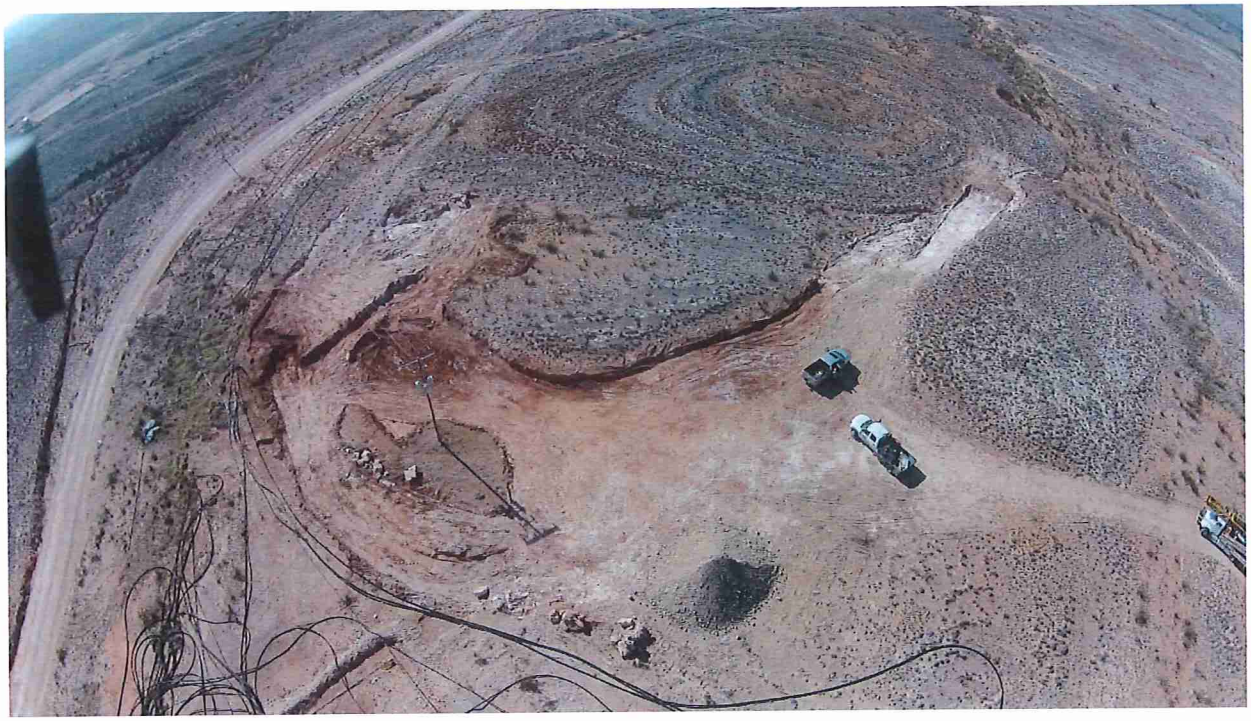
APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Spill



Excavation



APPENDIX V

LABORATORY DATA

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

September 24, 2018

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

RE: Lime Rock Malco B Fed Battery

OrderNo.: 1809891

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 20 sample(s) on 9/14/2018 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 **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-001 **Matrix:** SOIL

Client Sample ID: S-1 0.5'
Collection Date: 9/12/2018 1:00:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	2900	150		mg/Kg	100	9/21/2018 10:51:56 PM	40474
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/19/2018 11:49:58 PM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2018 11:49:58 PM	40407
Surr: DNOP	120	50.6-138		%Rec	1	9/19/2018 11:49:58 PM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2018 1:06:18 PM	40387
Surr: BFB	97.1	15-316		%Rec	1	9/19/2018 1:06:18 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/19/2018 1:06:18 PM	40387
Toluene	ND	0.049		mg/Kg	1	9/19/2018 1:06:18 PM	40387
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2018 1:06:18 PM	40387
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2018 1:06:18 PM	40387
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	9/19/2018 1:06:18 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-002 **Matrix:** SOIL

Client Sample ID: S-1 1'
Collection Date: 9/12/2018 1:06:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	3500	150		mg/Kg	100	9/21/2018 11:04:21 PM	40474
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 12:56:05 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 12:56:05 AM	40407
Surr: DNOP	112	50.6-138		%Rec	1	9/20/2018 12:56:05 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2018 1:29:55 PM	40387
Surr: BFB	98.4	15-316		%Rec	1	9/19/2018 1:29:55 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/19/2018 1:29:55 PM	40387
Toluene	ND	0.050		mg/Kg	1	9/19/2018 1:29:55 PM	40387
Ethylbenzene	ND	0.050		mg/Kg	1	9/19/2018 1:29:55 PM	40387
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2018 1:29:55 PM	40387
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/19/2018 1:29:55 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-003 **Matrix:** SOIL

Client Sample ID: S-1 2'
Collection Date: 9/12/2018 1:12:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	3900	150		mg/Kg	100	9/21/2018 11:16:46 PM	40474
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	9/20/2018 1:17:54 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 1:17:54 AM	40407
Surr: DNOP	128	50.6-138		%Rec	1	9/20/2018 1:17:54 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2018 1:53:32 PM	40387
Surr: BFB	98.3	15-316		%Rec	1	9/19/2018 1:53:32 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/19/2018 1:53:32 PM	40387
Toluene	ND	0.049		mg/Kg	1	9/19/2018 1:53:32 PM	40387
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2018 1:53:32 PM	40387
Xylenes, Total	ND	0.098		mg/Kg	1	9/19/2018 1:53:32 PM	40387
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/19/2018 1:53:32 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-004 **Matrix:** SOIL

Client Sample ID: S-2 0.5'
Collection Date: 9/12/2018 1:18:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	5000	300		mg/Kg	200	9/21/2018 11:29:11 PM	40474
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	670	9.9		mg/Kg	1	9/20/2018 1:39:57 AM	40407
Motor Oil Range Organics (MRO)	370	49		mg/Kg	1	9/20/2018 1:39:57 AM	40407
Surr: DNOP	134	50.6-138		%Rec	1	9/20/2018 1:39:57 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	9.4	D	mg/Kg	2	9/19/2018 2:17:09 PM	40387
Surr: BFB	111	15-316	D	%Rec	2	9/19/2018 2:17:09 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.047	D	mg/Kg	2	9/19/2018 2:17:09 PM	40387
Toluene	ND	0.094	D	mg/Kg	2	9/19/2018 2:17:09 PM	40387
Ethylbenzene	ND	0.094	D	mg/Kg	2	9/19/2018 2:17:09 PM	40387
Xylenes, Total	ND	0.19	D	mg/Kg	2	9/19/2018 2:17:09 PM	40387
Surr: 4-Bromofluorobenzene	103	80-120	D	%Rec	2	9/19/2018 2:17:09 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-005 **Matrix:** SOIL

Client Sample ID: S-2 1'
Collection Date: 9/12/2018 1:24:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	2600	150		mg/Kg	100	9/21/2018 11:41:35 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	290	9.9		mg/Kg	1	9/20/2018 11:44:16 AM	40407
Motor Oil Range Organics (MRO)	140	50		mg/Kg	1	9/20/2018 11:44:16 AM	40407
Surr: DNOP	105	50.6-138		%Rec	1	9/20/2018 11:44:16 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 2:40:51 PM	40387
Surr: BFB	104	15-316		%Rec	1	9/19/2018 2:40:51 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 2:40:51 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 2:40:51 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 2:40:51 PM	40387
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2018 2:40:51 PM	40387
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/19/2018 2:40:51 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-006 **Matrix:** SOIL

Client Sample ID: S-2 2'
Collection Date: 9/12/2018 1:30:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	2400	75		mg/Kg	50	9/21/2018 11:54:00 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	230	10		mg/Kg	1	9/20/2018 12:33:09 PM	40407
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	9/20/2018 12:33:09 PM	40407
Surr: DNOP	111	50.6-138		%Rec	1	9/20/2018 12:33:09 PM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2018 3:04:28 PM	40387
Surr: BFB	101	15-316		%Rec	1	9/19/2018 3:04:28 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 3:04:28 PM	40387
Toluene	ND	0.049		mg/Kg	1	9/19/2018 3:04:28 PM	40387
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2018 3:04:28 PM	40387
Xylenes, Total	ND	0.098		mg/Kg	1	9/19/2018 3:04:28 PM	40387
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	9/19/2018 3:04:28 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-007 **Matrix:** SOIL

Client Sample ID: S-3 0.5'
Collection Date: 9/12/2018 1:36:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	230	30		mg/Kg	20	9/20/2018 1:08:54 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	510	10		mg/Kg	1	9/20/2018 1:22:03 PM	40407
Motor Oil Range Organics (MRO)	200	50		mg/Kg	1	9/20/2018 1:22:03 PM	40407
Surr: DNOP	113	50.6-138		%Rec	1	9/20/2018 1:22:03 PM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 3:28:06 PM	40387
Surr: BFB	124	15-316		%Rec	1	9/19/2018 3:28:06 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 3:28:06 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 3:28:06 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 3:28:06 PM	40387
Xylenes, Total	ND	0.097		mg/Kg	1	9/19/2018 3:28:06 PM	40387
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	9/19/2018 3:28:06 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-008 **Matrix:** SOIL

Client Sample ID: S-3 1'
Collection Date: 9/12/2018 1:42:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	210	30		mg/Kg	20	9/20/2018 1:21:18 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/20/2018 3:07:53 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 3:07:53 AM	40407
Surr: DNOP	119	50.6-138		%Rec	1	9/20/2018 3:07:53 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2018 3:51:44 PM	40387
Surr: BFB	100	15-316		%Rec	1	9/19/2018 3:51:44 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	9/19/2018 3:51:44 PM	40387
Toluene	ND	0.047		mg/Kg	1	9/19/2018 3:51:44 PM	40387
Ethylbenzene	ND	0.047		mg/Kg	1	9/19/2018 3:51:44 PM	40387
Xylenes, Total	ND	0.094		mg/Kg	1	9/19/2018 3:51:44 PM	40387
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	9/19/2018 3:51:44 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-009 **Matrix:** SOIL

Client Sample ID: S-3 2'
Collection Date: 9/12/2018 1:48:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	560	30		mg/Kg	20	9/20/2018 1:33:43 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/20/2018 3:29:44 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 3:29:44 AM	40407
Surr: DNOP	120	50.6-138		%Rec	1	9/20/2018 3:29:44 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2018 5:49:31 PM	40387
Surr: BFB	97.4	15-316		%Rec	1	9/19/2018 5:49:31 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 5:49:31 PM	40387
Toluene	ND	0.049		mg/Kg	1	9/19/2018 5:49:31 PM	40387
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2018 5:49:31 PM	40387
Xylenes, Total	ND	0.098		mg/Kg	1	9/19/2018 5:49:31 PM	40387
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	9/19/2018 5:49:31 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-010 **Matrix:** SOIL

Client Sample ID: S-4 0.5'
Collection Date: 9/12/2018 1:52:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	3700	150		mg/Kg	100	9/22/2018 12:06:25 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 3:51:50 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 3:51:50 AM	40407
Surr: DNOP	116	50.6-138		%Rec	1	9/20/2018 3:51:50 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/19/2018 6:12:56 PM	40387
Surr: BFB	97.7	15-316		%Rec	1	9/19/2018 6:12:56 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	9/19/2018 6:12:56 PM	40387
Toluene	ND	0.046		mg/Kg	1	9/19/2018 6:12:56 PM	40387
Ethylbenzene	ND	0.046		mg/Kg	1	9/19/2018 6:12:56 PM	40387
Xylenes, Total	ND	0.092		mg/Kg	1	9/19/2018 6:12:56 PM	40387
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	1	9/19/2018 6:12:56 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-011 **Matrix:** SOIL

Client Sample ID: S-4 1'
Collection Date: 9/12/2018 2:00:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	1200	75		mg/Kg	50	9/22/2018 12:18:50 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 4:13:50 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 4:13:50 AM	40407
Surr: DNOP	117	50.6-138		%Rec	1	9/20/2018 4:13:50 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 6:36:21 PM	40387
Surr: BFB	96.2	15-316		%Rec	1	9/19/2018 6:36:21 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 6:36:21 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 6:36:21 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 6:36:21 PM	40387
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2018 6:36:21 PM	40387
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	9/19/2018 6:36:21 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-012 **Matrix:** SOIL

Client Sample ID: S-4 2'
Collection Date: 9/12/2018 2:06:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	2500	75		mg/Kg	50	9/22/2018 12:31:14 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 4:36:01 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 4:36:01 AM	40407
Surr: DNOP	120	50.6-138		%Rec	1	9/20/2018 4:36:01 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 6:59:46 PM	40387
Surr: BFB	94.3	15-316		%Rec	1	9/19/2018 6:59:46 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 6:59:46 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 6:59:46 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 6:59:46 PM	40387
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2018 6:59:46 PM	40387
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	9/19/2018 6:59:46 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-013 **Matrix:** SOIL

Client Sample ID: S-5 1'
Collection Date: 9/12/2018 2:12:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	12000	750		mg/Kg	500	9/22/2018 12:43:38 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 5:20:09 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 5:20:09 AM	40407
Surr: DNOP	119	50.6-138		%Rec	1	9/20/2018 5:20:09 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2018 7:23:09 PM	40387
Surr: BFB	94.1	15-316		%Rec	1	9/19/2018 7:23:09 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	9/19/2018 7:23:09 PM	40387
Toluene	ND	0.047		mg/Kg	1	9/19/2018 7:23:09 PM	40387
Ethylbenzene	ND	0.047		mg/Kg	1	9/19/2018 7:23:09 PM	40387
Xylenes, Total	ND	0.094		mg/Kg	1	9/19/2018 7:23:09 PM	40387
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	9/19/2018 7:23:09 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-014 **Matrix:** SOIL

Client Sample ID: S-5 2'
Collection Date: 9/12/2018 2:18:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	1900	75		mg/Kg	50	9/22/2018 1:20:52 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/20/2018 5:42:12 AM	40407
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2018 5:42:12 AM	40407
Surr: DNOP	120	50.6-138		%Rec	1	9/20/2018 5:42:12 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2018 7:46:27 PM	40387
Surr: BFB	93.3	15-316		%Rec	1	9/19/2018 7:46:27 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/19/2018 7:46:27 PM	40387
Toluene	ND	0.049		mg/Kg	1	9/19/2018 7:46:27 PM	40387
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2018 7:46:27 PM	40387
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2018 7:46:27 PM	40387
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	9/19/2018 7:46:27 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-015 **Matrix:** SOIL

Client Sample ID: S-6 1'
Collection Date: 9/12/2018 2:24:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	6400	300		mg/Kg	200	9/22/2018 1:33:16 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2018 6:04:14 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 6:04:14 AM	40407
Surr: DNOP	122	50.6-138		%Rec	1	9/20/2018 6:04:14 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 8:09:46 PM	40387
Surr: BFB	93.9	15-316		%Rec	1	9/19/2018 8:09:46 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 8:09:46 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 8:09:46 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 8:09:46 PM	40387
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2018 8:09:46 PM	40387
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	9/19/2018 8:09:46 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-016 **Matrix:** SOIL

Client Sample ID: S-7 1'
Collection Date: 9/12/2018 2:30:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	11000	750		mg/Kg	500	9/22/2018 1:45:41 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	9/20/2018 6:26:13 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 6:26:13 AM	40407
Surr: DNOP	134	50.6-138		%Rec	1	9/20/2018 6:26:13 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2018 8:33:01 PM	40387
Surr: BFB	103	15-316		%Rec	1	9/19/2018 8:33:01 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/19/2018 8:33:01 PM	40387
Toluene	ND	0.048		mg/Kg	1	9/19/2018 8:33:01 PM	40387
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2018 8:33:01 PM	40387
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2018 8:33:01 PM	40387
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	9/19/2018 8:33:01 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-017 **Matrix:** SOIL

Client Sample ID: S-8 0.5'
Collection Date: 9/12/2018 2:36:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	24000	750		mg/Kg	500	9/22/2018 1:58:05 AM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	440	9.9		mg/Kg	1	9/20/2018 6:48:18 AM	40407
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	9/20/2018 6:48:18 AM	40407
Surr: DNOP	118	50.6-138		%Rec	1	9/20/2018 6:48:18 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	37	9.5		mg/Kg	2	9/19/2018 8:56:20 PM	40387
Surr: BFB	228	15-316		%Rec	2	9/19/2018 8:56:20 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.047		mg/Kg	2	9/19/2018 8:56:20 PM	40387
Toluene	0.15	0.095		mg/Kg	2	9/19/2018 8:56:20 PM	40387
Ethylbenzene	0.57	0.095		mg/Kg	2	9/19/2018 8:56:20 PM	40387
Xylenes, Total	1.6	0.19		mg/Kg	2	9/19/2018 8:56:20 PM	40387
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	2	9/19/2018 8:56:20 PM	40387

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

Analytical Report
Lab Order **1809891**
Date Reported: **9/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-018 **Matrix:** SOIL

Client Sample ID: S-9 1'
Collection Date: 9/12/2018 2:42:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	720	30		mg/Kg	20	9/20/2018 3:50:12 PM	40476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	750	10		mg/Kg	1	9/20/2018 7:54:16 AM	40407
Motor Oil Range Organics (MRO)	400	50		mg/Kg	1	9/20/2018 7:54:16 AM	40407
Surr: DNOP	138	50.6-138		%Rec	1	9/20/2018 7:54:16 AM	40407
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	9.3	D	mg/Kg	2	9/19/2018 9:43:01 PM	40387
Surr: BFB	108	15-316	D	%Rec	2	9/19/2018 9:43:01 PM	40387
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.047	D	mg/Kg	2	9/19/2018 9:43:01 PM	40387
Toluene	ND	0.093	D	mg/Kg	2	9/19/2018 9:43:01 PM	40387
Ethylbenzene	ND	0.093	D	mg/Kg	2	9/19/2018 9:43:01 PM	40387
Xylenes, Total	ND	0.19	D	mg/Kg	2	9/19/2018 9:43:01 PM	40387
Surr: 4-Bromofluorobenzene	94.6	80-120	D	%Rec	2	9/19/2018 9:43:01 PM	40387

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-019 **Matrix:** SOIL

Client Sample ID: S-10 BG 0'
Collection Date: 9/12/2018 2:48:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	ND	30		mg/Kg	20	9/20/2018 4:02:37 PM	40476
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	**AG**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/18/2018 3:23:09 PM	40389
Surr: BFB	99.9	70-130		%Rec	1	9/18/2018 3:23:09 PM	40389
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/20/2018 9:00:50 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 9:00:50 AM	40407
Surr: DNOP	114	50.6-138		%Rec	1	9/20/2018 9:00:50 AM	40407
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.024		mg/Kg	1	9/18/2018 3:23:09 PM	40389
Toluene	ND	0.048		mg/Kg	1	9/18/2018 3:23:09 PM	40389
Ethylbenzene	ND	0.048		mg/Kg	1	9/18/2018 3:23:09 PM	40389
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2018 3:23:09 PM	40389
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	9/18/2018 3:23:09 PM	40389
Surr: Toluene-d8	93.3	70-130		%Rec	1	9/18/2018 3:23:09 PM	40389

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Lime Rock Malco B Fed Battery
Lab ID: 1809891-020 **Matrix:** SOIL

Client Sample ID: S-10 BG 0.5'
Collection Date: 9/12/2018 2:54:00 PM
Received Date: 9/14/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**SRM**
Chloride	ND	30		mg/Kg	20	9/20/2018 4:39:49 PM	40476
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	**AG**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2018 4:33:04 PM	40389
Surr: BFB	106	70-130		%Rec	1	9/18/2018 4:33:04 PM	40389
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/20/2018 9:22:53 AM	40407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/20/2018 9:22:53 AM	40407
Surr: DNOP	89.3	50.6-138		%Rec	1	9/20/2018 9:22:53 AM	40407
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.024		mg/Kg	1	9/18/2018 4:33:04 PM	40389
Toluene	ND	0.047		mg/Kg	1	9/18/2018 4:33:04 PM	40389
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2018 4:33:04 PM	40389
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2018 4:33:04 PM	40389
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	9/18/2018 4:33:04 PM	40389
Surr: Toluene-d8	94.7	70-130		%Rec	1	9/18/2018 4:33:04 PM	40389

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

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **MB-40474** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **40474** RunNo: **54278**
Prep Date: **9/20/2018** Analysis Date: **9/20/2018** SeqNo: **1798025** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-40474** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **40474** RunNo: **54278**
Prep Date: **9/20/2018** Analysis Date: **9/20/2018** SeqNo: **1798026** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID **MB-40476** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **40476** RunNo: **54324**
Prep Date: **9/20/2018** Analysis Date: **9/20/2018** SeqNo: **1798127** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-40476** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **40476** RunNo: **54324**
Prep Date: **9/20/2018** Analysis Date: **9/20/2018** SeqNo: **1798128** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809891**

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **LCS-40408** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **40408** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/19/2018** SeqNo: **1795175** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	50.6	138			

Sample ID **MB-40408** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **40408** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/19/2018** SeqNo: **1795176** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	50.6	138			

Sample ID **LCS-40407** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **40407** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/19/2018** SeqNo: **1795604** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	5.1		5.000		102	50.6	138			

Sample ID **MB-40407** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **40407** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/19/2018** SeqNo: **1795605** 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		104	50.6	138			

Sample ID **1809891-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0.5'** Batch ID: **40407** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/20/2018** SeqNo: **1795610** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.8	49.21	0	108	53.5	126			
Surr: DNOP	5.5		4.921		112	50.6	138			

Sample ID **1809891-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0.5'** Batch ID: **40407** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/20/2018** SeqNo: **1795611** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	49.95	0	112	53.5	126	5.66	21.7	

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

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **1809891-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0.5'** Batch ID: **40407** RunNo: **54262**
Prep Date: **9/18/2018** Analysis Date: **9/20/2018** SeqNo: **1795611** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		4.995		117	50.6	138	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809891**

24-Sep-18

Client: Talon Artesia

Project: Lime Rock Malco B Fed Battery

Sample ID **MB-40387** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **40387** RunNo: **54235**

Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1793605** 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	960		1000		96.2	15	316			

Sample ID **LCS-40387** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **40387** RunNo: **54235**

Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1793606** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	75.9	131			
Surr: BFB	1100		1000		107	15	316			

Qualifiers:

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

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **MB-40387** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **40387** RunNo: **54235**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1793647** 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	0.98		1.000		97.9	80	120			

Sample ID **LCS-40387** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **40387** RunNo: **54235**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1793648** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	77.3	128			
Toluene	1.0	0.050	1.000	0	99.8	79.2	125			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **1809891-020ams** SampType: **MS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-10 BG 0.5'** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.023	0.9166	0	104	80	120			
Toluene	1.0	0.046	0.9166	0.006904	109	80	120			
Ethylbenzene	1.1	0.046	0.9166	0	115	82	121			
Xylenes, Total	3.3	0.092	2.750	0.02249	118	80.2	120			
Surr: 4-Bromofluorobenzene	0.46		0.4583		100	70	130			
Surr: Toluene-d8	0.43		0.4583		94.9	70	130			

Sample ID **1809891-020amsd** SampType: **MSD4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-10 BG 0.5'** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9285	0	103	80	120	0.749	20	
Toluene	1.0	0.046	0.9285	0.006904	108	80	120	0.785	20	
Ethylbenzene	1.1	0.046	0.9285	0	115	82	121	0.681	20	
Xylenes, Total	3.3	0.093	2.786	0.02249	118	80.2	120	1.07	20	
Surr: 4-Bromofluorobenzene	0.47		0.4643		101	70	130	0	0	
Surr: Toluene-d8	0.43		0.4643		93.2	70	130	0	0	

Sample ID **lcs-40389** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794307** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			
Surr: Toluene-d8	0.45		0.5000		89.1	70	130			

Sample ID **mb-40389** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794308** 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.	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **mb-40389** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794308** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1809891**

Hall Environmental Analysis Laboratory, Inc.

24-Sep-18

Client: Talon Artesia
Project: Lime Rock Malco B Fed Battery

Sample ID **1809891-019ams** SampType: **MS** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-10 BG 0'** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.61	0	120	64.7	142			
Surr: BFB	450		472.1		94.4	70	130			

Sample ID **1809891-019amsd** SampType: **MSD** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-10 BG 0'** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794179** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.18	0	117	64.7	142	0.412	20	
Surr: BFB	470		483.6		96.9	70	130	0	0	

Sample ID **lcs-40389** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794195** 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	97.0	70	130			
Surr: BFB	450		500.0		89.3	70	130			

Sample ID **mb-40389** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS** Batch ID: **40389** RunNo: **54218**
Prep Date: **9/17/2018** Analysis Date: **9/18/2018** SeqNo: **1794196** 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	490		500.0		98.0	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: 1809891 RcptNo: 1

Received By: Jazzmine Burkhead 9/14/2018 8:55:00 AM Jazz Burkhead

Completed By: Michelle Garcia 9/14/2018 2:37:58 PM Michelle Garcia

Reviewed By: ENM 9/17/18

Labeled by: JAB 09/17/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted) 09/17/18
Adjusted? _____
Checked by: JAB

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	4.2	Good	Yes			

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas
Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#: cjones@talonlpe.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day Turn
☑ Standard ☐ Rush _____

Project Name: Lime Rock
Malco B Fed Battery

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

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. 1809891	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)
9-12	1:00p		S-1 0.5'	Jar	ICE	-001	✓		✓									✓				
	1:06		S-1 1'			-002																
	1:12		S-1 2'			-003																
	1:18		S-2 0.5'			-004																
	1:24		S-2 1'			-005																
	1:30		S-2 2'			-006																
	1:36		S-3 0.5'			-007																
	1:42		S-3 1'			-008																
	1:48		S-3 2'			-009																
	1:52		S-4 0.5'			-010																
	2:00p		S-4 1'			-011																
	2:06		S-4 2'			-012																

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
9/13/18	1100	[signature]	[signature]	9/13/18 1100	Cooler
9/13/18	1900	[signature]	[signature] Brickhead	09/14/18 08:55	

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.

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas
Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#: cjones@talonlpe.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day Turn
☑ Standard ☐ Rush _____

Project Name: Lime Rock Malco B Fed Battery

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.2

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. 1803801	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)
9-12	2:12		S-5 1'	Jar	ICE	-013	✓		✓									✓				
	2:18		S-5 2'			-014																
	2:24		S-6 1'			-015																
	2:30		S-7 1'			-016																
	2:36		S-8 0.5'			-017																
	2:42		S-9 1'			-018																
	2:48		S-10 BG 0'			-019																
	2:54		S-10 BG 0.5'			-020																

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/13/18	1100			9/13/18	1100
9/13/18	1900		Bushkal	09/14/18	08:55

Remarks: Courier

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 11, 2018

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

RE: Limerock Malco

OrderNo.: 1812377

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 19 sample(s) on 12/7/2018 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 **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-001 **Matrix:** SOIL

Client Sample ID: 17-2'
Collection Date: 12/6/2018 10:00:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	8600	300		mg/Kg	200	12/10/2018 8:05:05 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	50	10		mg/Kg	1	12/10/2018 9:58:33 AM	41977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 9:58:33 AM	41977
Surr: DNOP	110	50.6-138		%Rec	1	12/10/2018 9:58:33 AM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 4:13:02 PM	41968
Surr: BFB	77.2	73.8-119		%Rec	1	12/10/2018 4:13:02 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 6:23:15 PM	41968
Toluene	ND	0.047		mg/Kg	1	12/10/2018 6:23:15 PM	41968
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 6:23:15 PM	41968
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 6:23:15 PM	41968
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	12/10/2018 6:23:15 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 6:23:15 PM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-002 **Matrix:** SOIL

Client Sample ID: 17- 2.5' R
Collection Date: 12/6/2018 10:10:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	8700	300		mg/Kg	200	12/10/2018 8:17:29 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/10/2018 10:22:47 AM	41977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 10:22:47 AM	41977
Surr: DNOP	109	50.6-138		%Rec	1	12/10/2018 10:22:47 AM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 4:35:47 PM	41968
Surr: BFB	80.7	73.8-119		%Rec	1	12/10/2018 4:35:47 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	12/10/2018 6:51:47 PM	41968
Toluene	ND	0.047		mg/Kg	1	12/10/2018 6:51:47 PM	41968
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 6:51:47 PM	41968
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 6:51:47 PM	41968
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	12/10/2018 6:51:47 PM	41968
Surr: Toluene-d8	103	70-130		%Rec	1	12/10/2018 6:51:47 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-003 **Matrix:** SOIL

Client Sample ID: 19-2'
Collection Date: 12/6/2018 10:25:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	5300	300		mg/Kg	200	12/10/2018 8:29:53 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 10:47:10 AM	41977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 10:47:10 AM	41977
Surr: DNOP	108	50.6-138		%Rec	1	12/10/2018 10:47:10 AM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 4:58:31 PM	41968
Surr: BFB	80.3	73.8-119		%Rec	1	12/10/2018 4:58:31 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 7:20:15 PM	41968
Toluene	ND	0.048		mg/Kg	1	12/10/2018 7:20:15 PM	41968
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 7:20:15 PM	41968
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2018 7:20:15 PM	41968
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	12/10/2018 7:20:15 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 7:20:15 PM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-004 **Matrix:** SOIL

Client Sample ID: 19-2.5' R
Collection Date: 12/6/2018 10:35:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5100	300		mg/Kg	200	12/10/2018 8:42:17 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 11:11:32 AM	41977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 11:11:32 AM	41977
Surr: DNOP	116	50.6-138		%Rec	1	12/10/2018 11:11:32 AM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 5:21:14 PM	41968
Surr: BFB	83.0	73.8-119		%Rec	1	12/10/2018 5:21:14 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	12/10/2018 7:48:41 PM	41968
Toluene	ND	0.046		mg/Kg	1	12/10/2018 7:48:41 PM	41968
Ethylbenzene	ND	0.046		mg/Kg	1	12/10/2018 7:48:41 PM	41968
Xylenes, Total	ND	0.092		mg/Kg	1	12/10/2018 7:48:41 PM	41968
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	12/10/2018 7:48:41 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 7:48:41 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-005 **Matrix:** SOIL

Client Sample ID: 25-0'
Collection Date: 12/6/2018 10:50:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	6500	300		mg/Kg	200	12/10/2018 8:54:42 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	43	9.9		mg/Kg	1	12/10/2018 12:00:11 PM	41977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 12:00:11 PM	41977
Surr: DNOP	114	50.6-138		%Rec	1	12/10/2018 12:00:11 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 7:37:19 PM	41968
Surr: BFB	83.8	73.8-119		%Rec	1	12/10/2018 7:37:19 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 8:17:06 PM	41968
Toluene	ND	0.049		mg/Kg	1	12/10/2018 8:17:06 PM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 8:17:06 PM	41968
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2018 8:17:06 PM	41968
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	12/10/2018 8:17:06 PM	41968
Surr: Toluene-d8	105	70-130		%Rec	1	12/10/2018 8:17:06 PM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-006 **Matrix:** SOIL

Client Sample ID: 25-1'
Collection Date: 12/6/2018 11:00:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	11000	750		mg/Kg	500	12/10/2018 9:07:06 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 12:24:32 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 12:24:32 PM	41977
Surr: DNOP	113	50.6-138		%Rec	1	12/10/2018 12:24:32 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 7:59:57 PM	41968
Surr: BFB	80.6	73.8-119		%Rec	1	12/10/2018 7:59:57 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 11:07:22 PM	41968
Toluene	ND	0.048		mg/Kg	1	12/10/2018 11:07:22 PM	41968
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 11:07:22 PM	41968
Xylenes, Total	ND	0.095		mg/Kg	1	12/10/2018 11:07:22 PM	41968
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	12/10/2018 11:07:22 PM	41968
Surr: Toluene-d8	102	70-130		%Rec	1	12/10/2018 11:07:22 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-007 **Matrix:** SOIL

Client Sample ID: 25-2' R
Collection Date: 12/6/2018 11:10:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	3100	150		mg/Kg	100	12/10/2018 9:19:30 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 12:48:55 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 12:48:55 PM	41977
Surr: DNOP	117	50.6-138		%Rec	1	12/10/2018 12:48:55 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 8:22:31 PM	41968
Surr: BFB	80.6	73.8-119		%Rec	1	12/10/2018 8:22:31 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	12/10/2018 11:35:42 PM	41968
Toluene	ND	0.047		mg/Kg	1	12/10/2018 11:35:42 PM	41968
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 11:35:42 PM	41968
Xylenes, Total	ND	0.093		mg/Kg	1	12/10/2018 11:35:42 PM	41968
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	12/10/2018 11:35:42 PM	41968
Surr: Toluene-d8	105	70-130		%Rec	1	12/10/2018 11:35:42 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-008 **Matrix:** SOIL

Client Sample ID: 26-0'
Collection Date: 12/6/2018 11:25:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	33	30		mg/Kg	20	12/10/2018 2:42:25 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	12/10/2018 1:13:24 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 1:13:24 PM	41977
Surr: DNOP	125	50.6-138		%Rec	1	12/10/2018 1:13:24 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 8:45:09 PM	41968
Surr: BFB	79.8	73.8-119		%Rec	1	12/10/2018 8:45:09 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.025		mg/Kg	1	12/11/2018 12:04:01 AM	41968
Toluene	ND	0.049		mg/Kg	1	12/11/2018 12:04:01 AM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 12:04:01 AM	41968
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2018 12:04:01 AM	41968
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	12/11/2018 12:04:01 AM	41968
Surr: Toluene-d8	102	70-130		%Rec	1	12/11/2018 12:04:01 AM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-009 **Matrix:** SOIL

Client Sample ID: 26-1'
Collection Date: 12/6/2018 11:35:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	61	30		mg/Kg	20	12/10/2018 2:54:49 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 1:37:40 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 1:37:40 PM	41977
Surr: DNOP	107	50.6-138		%Rec	1	12/10/2018 1:37:40 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 9:07:44 PM	41968
Surr: BFB	81.2	73.8-119		%Rec	1	12/10/2018 9:07:44 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.023		mg/Kg	1	12/11/2018 12:32:19 AM	41968
Toluene	ND	0.046		mg/Kg	1	12/11/2018 12:32:19 AM	41968
Ethylbenzene	ND	0.046		mg/Kg	1	12/11/2018 12:32:19 AM	41968
Xylenes, Total	ND	0.092		mg/Kg	1	12/11/2018 12:32:19 AM	41968
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	12/11/2018 12:32:19 AM	41968
Surr: Toluene-d8	102	70-130		%Rec	1	12/11/2018 12:32:19 AM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-010 **Matrix:** SOIL

Client Sample ID: 27-0'
Collection Date: 12/6/2018 11:50:00 AM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	14000	750		mg/Kg	500	12/10/2018 9:31:55 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	23	9.4		mg/Kg	1	12/10/2018 2:26:31 PM	41977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 2:26:31 PM	41977
Surr: DNOP	118	50.6-138		%Rec	1	12/10/2018 2:26:31 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2018 9:30:18 PM	41968
Surr: BFB	85.1	73.8-119		%Rec	1	12/10/2018 9:30:18 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.025		mg/Kg	1	12/11/2018 1:00:35 AM	41968
Toluene	ND	0.050		mg/Kg	1	12/11/2018 1:00:35 AM	41968
Ethylbenzene	ND	0.050		mg/Kg	1	12/11/2018 1:00:35 AM	41968
Xylenes, Total	ND	0.10		mg/Kg	1	12/11/2018 1:00:35 AM	41968
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	12/11/2018 1:00:35 AM	41968
Surr: Toluene-d8	98.9	70-130		%Rec	1	12/11/2018 1:00:35 AM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-011 **Matrix:** SOIL

Client Sample ID: 27-1'
Collection Date: 12/6/2018 12:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	5600	300		mg/Kg	200	12/10/2018 10:09:09 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/10/2018 2:50:56 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 2:50:56 PM	41977
Surr: DNOP	109	50.6-138		%Rec	1	12/10/2018 2:50:56 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 9:52:51 PM	41968
Surr: BFB	81.0	73.8-119		%Rec	1	12/10/2018 9:52:51 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.025		mg/Kg	1	12/11/2018 1:28:56 AM	41968
Toluene	ND	0.049		mg/Kg	1	12/11/2018 1:28:56 AM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 1:28:56 AM	41968
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2018 1:28:56 AM	41968
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	12/11/2018 1:28:56 AM	41968
Surr: Toluene-d8	101	70-130		%Rec	1	12/11/2018 1:28:56 AM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-012 **Matrix:** SOIL

Client Sample ID: 27-2'
Collection Date: 12/6/2018 12:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	6100	300		mg/Kg	200	12/10/2018 10:21:33 PM	42000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 3:15:14 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 3:15:14 PM	41977
Surr: DNOP	113	50.6-138		%Rec	1	12/10/2018 3:15:14 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 10:15:25 PM	41968
Surr: BFB	83.3	73.8-119		%Rec	1	12/10/2018 10:15:25 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/11/2018 1:57:12 AM	41968
Toluene	ND	0.049		mg/Kg	1	12/11/2018 1:57:12 AM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 1:57:12 AM	41968
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2018 1:57:12 AM	41968
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	12/11/2018 1:57:12 AM	41968
Surr: Toluene-d8	105	70-130		%Rec	1	12/11/2018 1:57:12 AM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-013 **Matrix:** SOIL

Client Sample ID: 27-3'
Collection Date: 12/6/2018 12:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	8500	300		mg/Kg	200	12/10/2018 10:33:57 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/10/2018 3:39:38 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 3:39:38 PM	41977
Surr: DNOP	109	50.6-138		%Rec	1	12/10/2018 3:39:38 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 10:37:59 PM	41968
Surr: BFB	81.1	73.8-119		%Rec	1	12/10/2018 10:37:59 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/11/2018 2:25:29 AM	41968
Toluene	ND	0.049		mg/Kg	1	12/11/2018 2:25:29 AM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 2:25:29 AM	41968
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2018 2:25:29 AM	41968
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	12/11/2018 2:25:29 AM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/11/2018 2:25:29 AM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-014 **Matrix:** SOIL

Client Sample ID: 27-3.5'
Collection Date: 12/6/2018 12:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9700	750		mg/Kg	500	12/10/2018 10:46:22 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 4:03:56 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 4:03:56 PM	41977
Surr: DNOP	110	50.6-138		%Rec	1	12/10/2018 4:03:56 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 11:00:29 PM	41968
Surr: BFB	82.1	73.8-119		%Rec	1	12/10/2018 11:00:29 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	12/11/2018 2:53:42 AM	41968
Toluene	ND	0.049		mg/Kg	1	12/11/2018 2:53:42 AM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 2:53:42 AM	41968
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2018 2:53:42 AM	41968
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	12/11/2018 2:53:42 AM	41968
Surr: Toluene-d8	103	70-130		%Rec	1	12/11/2018 2:53:42 AM	41968

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-015 **Matrix:** SOIL

Client Sample ID: 27-4'
Collection Date: 12/6/2018 12:40:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9400	750		mg/Kg	500	12/10/2018 10:58:47 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 6:05:13 PM	41978
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 6:05:13 PM	41978
Surr: DNOP	102	50.6-138		%Rec	1	12/10/2018 6:05:13 PM	41978
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/11/2018 1:06:31 AM	41975
Surr: BFB	88.7	73.8-119		%Rec	1	12/11/2018 1:06:31 AM	41975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/11/2018 1:06:31 AM	41975
Toluene	ND	0.048		mg/Kg	1	12/11/2018 1:06:31 AM	41975
Ethylbenzene	ND	0.048		mg/Kg	1	12/11/2018 1:06:31 AM	41975
Xylenes, Total	ND	0.095		mg/Kg	1	12/11/2018 1:06:31 AM	41975
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	12/11/2018 1:06:31 AM	41975

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-016 **Matrix:** SOIL

Client Sample ID: 28-0'
Collection Date: 12/6/2018 1:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2000	75		mg/Kg	50	12/10/2018 11:11:11 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/10/2018 6:29:25 PM	41978
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 6:29:25 PM	41978
Surr: DNOP	102	50.6-138		%Rec	1	12/10/2018 6:29:25 PM	41978
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/11/2018 1:29:43 AM	41975
Surr: BFB	86.1	73.8-119		%Rec	1	12/11/2018 1:29:43 AM	41975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/11/2018 1:29:43 AM	41975
Toluene	ND	0.046		mg/Kg	1	12/11/2018 1:29:43 AM	41975
Ethylbenzene	ND	0.046		mg/Kg	1	12/11/2018 1:29:43 AM	41975
Xylenes, Total	ND	0.092		mg/Kg	1	12/11/2018 1:29:43 AM	41975
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	12/11/2018 1:29:43 AM	41975

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-017 **Matrix:** SOIL

Client Sample ID: 28-1'
Collection Date: 12/6/2018 1:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9600	750		mg/Kg	500	12/10/2018 11:23:35 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/10/2018 6:53:38 PM	41978
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 6:53:38 PM	41978
Surr: DNOP	105	50.6-138		%Rec	1	12/10/2018 6:53:38 PM	41978
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/11/2018 1:52:54 AM	41975
Surr: BFB	84.4	73.8-119		%Rec	1	12/11/2018 1:52:54 AM	41975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/11/2018 1:52:54 AM	41975
Toluene	ND	0.048		mg/Kg	1	12/11/2018 1:52:54 AM	41975
Ethylbenzene	ND	0.048		mg/Kg	1	12/11/2018 1:52:54 AM	41975
Xylenes, Total	ND	0.096		mg/Kg	1	12/11/2018 1:52:54 AM	41975
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	12/11/2018 1:52:54 AM	41975

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-018 **Matrix:** SOIL

Client Sample ID: 28-2'
Collection Date: 12/6/2018 1:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9700	300		mg/Kg	200	12/10/2018 11:36:00 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/10/2018 7:17:37 PM	41978
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 7:17:37 PM	41978
Surr: DNOP	114	50.6-138		%Rec	1	12/10/2018 7:17:37 PM	41978
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/11/2018 2:16:03 AM	41975
Surr: BFB	86.5	73.8-119		%Rec	1	12/11/2018 2:16:03 AM	41975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/11/2018 2:16:03 AM	41975
Toluene	ND	0.050		mg/Kg	1	12/11/2018 2:16:03 AM	41975
Ethylbenzene	ND	0.050		mg/Kg	1	12/11/2018 2:16:03 AM	41975
Xylenes, Total	ND	0.10		mg/Kg	1	12/11/2018 2:16:03 AM	41975
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	12/11/2018 2:16:03 AM	41975

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

Analytical Report
Lab Order **1812377**
Date Reported: **12/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812377-019 **Matrix:** SOIL

Client Sample ID: 28-3' R
Collection Date: 12/6/2018 1:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	4500	150		mg/Kg	100	12/10/2018 11:48:25 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/10/2018 7:41:37 PM	41978
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 7:41:37 PM	41978
Surr: DNOP	107	50.6-138		%Rec	1	12/10/2018 7:41:37 PM	41978
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2018 2:39:10 AM	41975
Surr: BFB	87.6	73.8-119		%Rec	1	12/11/2018 2:39:10 AM	41975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/11/2018 2:39:10 AM	41975
Toluene	ND	0.049		mg/Kg	1	12/11/2018 2:39:10 AM	41975
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2018 2:39:10 AM	41975
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2018 2:39:10 AM	41975
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	12/11/2018 2:39:10 AM	41975

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

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41984** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **41984** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1877456** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-41984** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **41984** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/8/2018** SeqNo: **1877457** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID **MB-42000** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **42000** RunNo: **56209**
Prep Date: **12/10/2018** Analysis Date: **12/10/2018** SeqNo: **1878477** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-42000** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **42000** RunNo: **56209**
Prep Date: **12/10/2018** Analysis Date: **12/10/2018** SeqNo: **1878479** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **LCS-41977** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877368** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.2	70	130			
Surr: DNOP	5.2		5.000		103	50.6	138			

Sample ID **MB-41977** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877369** 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	9.9		10.00		99.3	50.6	138			

Sample ID **1812377-014AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **27-3.5'** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878030** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.55	0	90.7	53.5	126			
Surr: DNOP	5.3		4.955		106	50.6	138			

Sample ID **1812377-014AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **27-3.5'** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878031** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.30	0	93.1	53.5	126	4.17	21.7	
Surr: DNOP	4.9		4.630		107	50.6	138	0	0	

Sample ID **1812377-019AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **28-3' R** Batch ID: **41978** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878037** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	49.07	0	99.1	53.5	126			
Surr: DNOP	5.8		4.907		118	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **1812377-019AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **28-3' R** Batch ID: **41978** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878038** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.53	0	93.5	53.5	126	9.00	21.7	
Surr: DNOP	5.3		4.753		112	50.6	138	0	0	

Sample ID **LCS-41978** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **41978** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.7	70	130			
Surr: DNOP	5.2		5.000		104	50.6	138			

Sample ID **MB-41978** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **41978** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878040** 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		101	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

WO#: 1812377

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41975** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877926** 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	940		1000		93.7	73.8	119			

Sample ID **LCS-41975** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877927** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	80.1	123			
Surr: BFB	1100		1000		111	73.8	119			

Sample ID **1812377-015AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **27-4'** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877929** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.56	0	98.6	77.8	128			
Surr: BFB	1000		982.3		105	73.8	119			

Sample ID **1812377-015AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **27-4'** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877930** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.98	0	95.0	77.8	128	2.04	20	
Surr: BFB	1100		999.0		107	73.8	119	0	0	

Sample ID **MB-41968** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877994** 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	890		1000		89.1	73.8	119			

Sample ID **LCS-41968** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877995** 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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **LCS-41968** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877995** 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	95.0	80.1	123			
Surr: BFB	1100		1000		113	73.8	119			

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

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41975** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877968** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **LCS-41975** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID **1812377-016AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **28-0'** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877972** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.024	0.9479	0	77.5	63.9	127			
Toluene	0.83	0.047	0.9479	0.008632	86.4	69.9	131			
Ethylbenzene	0.86	0.047	0.9479	0	90.7	71	132			
Xylenes, Total	2.6	0.095	2.844	0	92.3	71.8	131			
Surr: 4-Bromofluorobenzene	0.93		0.9479		98.2	80	120			

Sample ID **1812377-016AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **28-0'** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877973** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.023	0.9276	0	81.2	63.9	127	2.50	20	
Toluene	0.82	0.046	0.9276	0.008632	87.2	69.9	131	1.22	20	
Ethylbenzene	0.84	0.046	0.9276	0	90.6	71	132	2.26	20	
Xylenes, Total	2.5	0.093	2.783	0	91.4	71.8	131	3.15	20	
Surr: 4-Bromofluorobenzene	0.94		0.9276		101	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812377**

Hall Environmental Analysis Laboratory, Inc.

11-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **LCS-41968** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878755** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	99.8	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.52		0.5000		105	70	130			

Sample ID **MB-41968** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878756** 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	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.53		0.5000		106	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: 1812377 RcptNo: 1

Received By: Victoria Zollar 12/7/2018 8:45:00 AM Victoria Zollar

Completed By: Jazzmine Burkhead 12/7/2018 9:39:23 AM

Reviewed By: JB 12-7-18

Labeled by: ENM 12/7/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by:
ENM 12/7/18

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	4.3	Good	Yes			

Chain-of-Custody Record

Client: TALON / LPE

Mailing Address: 408 W Texas Ave
88210 Artesia, NM

Phone #: 575-746-8768

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 48 hours

Project Name: Limestone - Mineo

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler: Dakota Jones

On Ice: ☐ Yes ☐ No

Sample Temperature: 4.3

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. 1812377	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)	Chloride (300)			
12/6	10:00am	S	17 - 2'	1 glass	Cool	- 001	✓		✓												
12/6	10:10am	S	17 - 2.5' R			- 002															
12/6	10:25am	S	19 - 2'			- 003															
12/6	10:35am	S	19 - 2.5' R			- 004															
12/6	10:50am	S	25 - 0'			- 005															
12/6	11:00am	S	25 - 1'			- 006															
12/6	11:10am	S	25 - 2' R			- 007															
12/6	11:25am	S	26 - 0'			- 008															
12/6	11:35am	S	26 - 1'			- 009															
12/6	11:50am	S	27 - 0'			- 010															
12/6	12:00pm	S	27 - 1'			- 011															
12/6	12:10pm	S	27 - 2'			- 012															

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
12/6/18	1600	[signature]	[signature]	12/6/18 1600	Courier WZ 12/7/18 8:45
12/6/18	1900	[signature]	[signature]	12/7/18 8:45	

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.

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave
88210 Artesia, NM

Phone #: 575-746-8768

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 48 hours

Project Name: Limestone - Malco

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler: Dakota Jones

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.3

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. 1812377	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)	Chloride (300)			
12/6	12:20pm	S	27 - 3'	1 glass	Cool	-013	✓		✓									✓			
12/6	12:30pm	S	27 - 3.5'			-014															
12/6	12:40pm	S	27 - 4'			-015															
12/6	1:00pm	S	28 - 0'			-016															
12/6	1:10pm	S	28 - 1'			-017															
12/6	1:20pm	S	28 - 2'			-018															
12/6	1:30pm	S	28 - 3'			-019															

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/6/18	1600	[signature]	[signature]	12/6/18	1600
12/6/18	1900	[signature]	[signature]	12/7/18	8:45

Remarks: Carrier VVZ 12/7/18 8:45

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 13, 2018

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL: (806) 467-0607
FAX (806) 467-0622

RE: Limerock Malco

OrderNo.: 1812375

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 26 sample(s) on 12/7/2018 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 **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-001 **Matrix:** SOIL

Client Sample ID: S-11 0'
Collection Date: 12/5/2018 1:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/7/2018 5:38:51 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 9:43:38 AM	41971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 9:43:38 AM	41971
Surr: DNOP	99.9	50.6-138		%Rec	1	12/10/2018 9:43:38 AM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 10:39:28 AM	41966
Surr: BFB	101	73.8-119		%Rec	1	12/10/2018 10:39:28 AM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/10/2018 10:39:28 AM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 10:39:28 AM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 10:39:28 AM	41966
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2018 10:39:28 AM	41966
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	12/10/2018 10:39:28 AM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-002 **Matrix:** SOIL

Client Sample ID: S-11 .5' R
Collection Date: 12/5/2018 1:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/7/2018 6:40:55 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 10:07:21 AM	41971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 10:07:21 AM	41971
Surr: DNOP	68.1	50.6-138		%Rec	1	12/10/2018 10:07:21 AM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2018 11:49:46 AM	41966
Surr: BFB	94.1	73.8-119		%Rec	1	12/10/2018 11:49:46 AM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/10/2018 11:49:46 AM	41966
Toluene	ND	0.050		mg/Kg	1	12/10/2018 11:49:46 AM	41966
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2018 11:49:46 AM	41966
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2018 11:49:46 AM	41966
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/10/2018 11:49:46 AM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-003 **Matrix:** SOIL

Client Sample ID: S-12 0'
Collection Date: 12/5/2018 1:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	31	30		mg/Kg	20	12/7/2018 6:53:19 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 10:31:07 AM	41971
Motor Oil Range Organics (MRO)	69	50		mg/Kg	1	12/10/2018 10:31:07 AM	41971
Surr: DNOP	92.9	50.6-138		%Rec	1	12/10/2018 10:31:07 AM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 1:00:19 PM	41966
Surr: BFB	93.6	73.8-119		%Rec	1	12/10/2018 1:00:19 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 1:00:19 PM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 1:00:19 PM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 1:00:19 PM	41966
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2018 1:00:19 PM	41966
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/10/2018 1:00:19 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-004 **Matrix:** SOIL

Client Sample ID: S-12 .5' R
Collection Date: 12/5/2018 1:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/7/2018 7:05:44 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2018 10:54:53 AM	41971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 10:54:53 AM	41971
Surr: DNOP	92.4	50.6-138		%Rec	1	12/10/2018 10:54:53 AM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 1:47:32 PM	41966
Surr: BFB	95.6	73.8-119		%Rec	1	12/10/2018 1:47:32 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 1:47:32 PM	41966
Toluene	ND	0.048		mg/Kg	1	12/10/2018 1:47:32 PM	41966
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 1:47:32 PM	41966
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2018 1:47:32 PM	41966
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	12/10/2018 1:47:32 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-005 **Matrix:** SOIL

Client Sample ID: S-13 0'
Collection Date: 12/5/2018 1:40:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/7/2018 7:18:09 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 11:18:36 AM	41971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 11:18:36 AM	41971
Surr: DNOP	86.7	50.6-138		%Rec	1	12/10/2018 11:18:36 AM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 2:11:09 PM	41966
Surr: BFB	92.0	73.8-119		%Rec	1	12/10/2018 2:11:09 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 2:11:09 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 2:11:09 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 2:11:09 PM	41966
Xylenes, Total	ND	0.095		mg/Kg	1	12/10/2018 2:11:09 PM	41966
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	12/10/2018 2:11:09 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-006 **Matrix:** SOIL

Client Sample ID: S-13 1' R
Collection Date: 12/5/2018 1:50:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	380	30		mg/Kg	20	12/7/2018 7:30:33 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2018 12:06:56 PM	41971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2018 12:06:56 PM	41971
Surr: DNOP	97.2	50.6-138		%Rec	1	12/10/2018 12:06:56 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 2:57:55 PM	41966
Surr: BFB	93.1	73.8-119		%Rec	1	12/10/2018 2:57:55 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 2:57:55 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 2:57:55 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 2:57:55 PM	41966
Xylenes, Total	ND	0.093		mg/Kg	1	12/10/2018 2:57:55 PM	41966
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	12/10/2018 2:57:55 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-007 **Matrix:** SOIL

Client Sample ID: S-14 0'
Collection Date: 12/5/2018 2:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	160	30		mg/Kg	20	12/7/2018 7:42:58 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 12:30:48 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 12:30:48 PM	41971
Surr: DNOP	92.1	50.6-138		%Rec	1	12/10/2018 12:30:48 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 3:21:32 PM	41966
Surr: BFB	93.3	73.8-119		%Rec	1	12/10/2018 3:21:32 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 3:21:32 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 3:21:32 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 3:21:32 PM	41966
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 3:21:32 PM	41966
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	12/10/2018 3:21:32 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-008 **Matrix:** SOIL

Client Sample ID: S-14 1'
Collection Date: 12/5/2018 2:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	12/7/2018 7:55:23 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/10/2018 12:54:38 PM	41971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 12:54:38 PM	41971
Surr: DNOP	71.2	50.6-138		%Rec	1	12/10/2018 12:54:38 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 3:45:10 PM	41966
Surr: BFB	91.5	73.8-119		%Rec	1	12/10/2018 3:45:10 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 3:45:10 PM	41966
Toluene	ND	0.046		mg/Kg	1	12/10/2018 3:45:10 PM	41966
Ethylbenzene	ND	0.046		mg/Kg	1	12/10/2018 3:45:10 PM	41966
Xylenes, Total	ND	0.092		mg/Kg	1	12/10/2018 3:45:10 PM	41966
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	12/10/2018 3:45:10 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-009 **Matrix:** SOIL

Client Sample ID: S-15 0'
Collection Date: 12/5/2018 2:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	1700	75		mg/Kg	50	12/10/2018 6:00:59 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/10/2018 1:18:29 PM	41971
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 1:18:29 PM	41971
Surr: DNOP	89.8	50.6-138		%Rec	1	12/10/2018 1:18:29 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 4:08:47 PM	41966
Surr: BFB	93.0	73.8-119		%Rec	1	12/10/2018 4:08:47 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 4:08:47 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 4:08:47 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 4:08:47 PM	41966
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 4:08:47 PM	41966
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	12/10/2018 4:08:47 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-010 **Matrix:** SOIL

Client Sample ID: S-15 1'
Collection Date: 12/5/2018 2:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	1700	75		mg/Kg	50	12/10/2018 6:13:24 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 1:42:23 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 1:42:23 PM	41971
Surr: DNOP	86.4	50.6-138		%Rec	1	12/10/2018 1:42:23 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 4:32:21 PM	41966
Surr: BFB	91.0	73.8-119		%Rec	1	12/10/2018 4:32:21 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 4:32:21 PM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 4:32:21 PM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 4:32:21 PM	41966
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2018 4:32:21 PM	41966
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	12/10/2018 4:32:21 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-011 **Matrix:** SOIL

Client Sample ID: S-16 0'
Collection Date: 12/5/2018 2:40:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	55	30		mg/Kg	20	12/7/2018 9:22:16 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	12/10/2018 2:06:21 PM	41971
Motor Oil Range Organics (MRO)	50	49		mg/Kg	1	12/10/2018 2:06:21 PM	41971
Surr: DNOP	92.4	50.6-138		%Rec	1	12/10/2018 2:06:21 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 8:04:01 PM	41966
Surr: BFB	88.9	73.8-119		%Rec	1	12/10/2018 8:04:01 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 8:04:01 PM	41966
Toluene	ND	0.046		mg/Kg	1	12/10/2018 8:04:01 PM	41966
Ethylbenzene	ND	0.046		mg/Kg	1	12/10/2018 8:04:01 PM	41966
Xylenes, Total	ND	0.092		mg/Kg	1	12/10/2018 8:04:01 PM	41966
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	12/10/2018 8:04:01 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-012 **Matrix:** SOIL

Client Sample ID: S-16 .5' R
Collection Date: 12/5/2018 2:50:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	12/7/2018 9:34:40 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 2:30:14 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 2:30:14 PM	41971
Surr: DNOP	84.2	50.6-138		%Rec	1	12/10/2018 2:30:14 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 8:27:21 PM	41966
Surr: BFB	89.6	73.8-119		%Rec	1	12/10/2018 8:27:21 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 8:27:21 PM	41966
Toluene	ND	0.048		mg/Kg	1	12/10/2018 8:27:21 PM	41966
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 8:27:21 PM	41966
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2018 8:27:21 PM	41966
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	1	12/10/2018 8:27:21 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-013 **Matrix:** SOIL

Client Sample ID: S-24 3'
Collection Date: 12/5/2018 5:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	84	30		mg/Kg	20	12/7/2018 9:47:05 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/10/2018 2:54:00 PM	41971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 2:54:00 PM	41971
Surr: DNOP	88.5	50.6-138		%Rec	1	12/10/2018 2:54:00 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 8:50:45 PM	41966
Surr: BFB	91.1	73.8-119		%Rec	1	12/10/2018 8:50:45 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 8:50:45 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 8:50:45 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 8:50:45 PM	41966
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 8:50:45 PM	41966
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	12/10/2018 8:50:45 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-014 **Matrix:** SOIL

Client Sample ID: S-24 3.5' R
Collection Date: 12/5/2018 5:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	97	30		mg/Kg	20	12/7/2018 9:59:30 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 3:42:00 PM	41971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 3:42:00 PM	41971
Surr: DNOP	79.1	50.6-138		%Rec	1	12/10/2018 3:42:00 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 9:14:06 PM	41966
Surr: BFB	91.2	73.8-119		%Rec	1	12/10/2018 9:14:06 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	12/10/2018 9:14:06 PM	41966
Toluene	ND	0.047		mg/Kg	1	12/10/2018 9:14:06 PM	41966
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 9:14:06 PM	41966
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 9:14:06 PM	41966
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	12/10/2018 9:14:06 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-015 **Matrix:** SOIL

Client Sample ID: S-17 0'
Collection Date: 12/5/2018 3:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	14000	750		mg/Kg	500	12/10/2018 6:25:49 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	120	9.9		mg/Kg	1	12/10/2018 4:06:00 PM	41971
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/10/2018 4:06:00 PM	41971
Surr: DNOP	88.9	50.6-138		%Rec	1	12/10/2018 4:06:00 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2018 9:37:22 PM	41966
Surr: BFB	86.4	73.8-119		%Rec	1	12/10/2018 9:37:22 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	12/10/2018 9:37:22 PM	41966
Toluene	ND	0.050		mg/Kg	1	12/10/2018 9:37:22 PM	41966
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2018 9:37:22 PM	41966
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2018 9:37:22 PM	41966
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	12/10/2018 9:37:22 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-016 **Matrix:** SOIL

Client Sample ID: S-17 1'
Collection Date: 12/5/2018 3:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9200	750		mg/Kg	500	12/10/2018 6:38:13 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 4:29:55 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 4:29:55 PM	41971
Surr: DNOP	89.7	50.6-138		%Rec	1	12/10/2018 4:29:55 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 10:00:38 PM	41966
Surr: BFB	88.8	73.8-119		%Rec	1	12/10/2018 10:00:38 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 10:00:38 PM	41966
Toluene	ND	0.048		mg/Kg	1	12/10/2018 10:00:38 PM	41966
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 10:00:38 PM	41966
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2018 10:00:38 PM	41966
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	12/10/2018 10:00:38 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-017 **Matrix:** SOIL

Client Sample ID: S-18 0'
Collection Date: 12/5/2018 3:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	250	30		mg/Kg	20	12/7/2018 10:36:42 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 4:53:43 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 4:53:43 PM	41971
Surr: DNOP	90.1	50.6-138		%Rec	1	12/10/2018 4:53:43 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 10:23:55 PM	41966
Surr: BFB	90.9	73.8-119		%Rec	1	12/10/2018 10:23:55 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 10:23:55 PM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 10:23:55 PM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 10:23:55 PM	41966
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2018 10:23:55 PM	41966
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	12/10/2018 10:23:55 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-018 **Matrix:** SOIL

Client Sample ID: S-18 .5' R
Collection Date: 12/5/2018 3:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	920	30		mg/Kg	20	12/7/2018 11:13:57 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 5:17:28 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 5:17:28 PM	41971
Surr: DNOP	86.3	50.6-138		%Rec	1	12/10/2018 5:17:28 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 10:47:11 PM	41966
Surr: BFB	90.7	73.8-119		%Rec	1	12/10/2018 10:47:11 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	12/10/2018 10:47:11 PM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 10:47:11 PM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 10:47:11 PM	41966
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2018 10:47:11 PM	41966
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	12/10/2018 10:47:11 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-019 **Matrix:** SOIL

Client Sample ID: S-19 0'
Collection Date: 12/5/2018 3:40:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9600	750		mg/Kg	500	12/10/2018 6:50:38 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/10/2018 5:41:13 PM	41971
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2018 5:41:13 PM	41971
Surr: DNOP	90.2	50.6-138		%Rec	1	12/10/2018 5:41:13 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 11:10:27 PM	41966
Surr: BFB	88.0	73.8-119		%Rec	1	12/10/2018 11:10:27 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 11:10:27 PM	41966
Toluene	ND	0.049		mg/Kg	1	12/10/2018 11:10:27 PM	41966
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 11:10:27 PM	41966
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2018 11:10:27 PM	41966
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	12/10/2018 11:10:27 PM	41966

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-020 **Matrix:** SOIL

Client Sample ID: S-19 1'
Collection Date: 12/5/2018 3:50:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	8800	750		mg/Kg	500	12/10/2018 7:03:02 PM	41979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 6:04:53 PM	41971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 6:04:53 PM	41971
Surr: DNOP	89.6	50.6-138		%Rec	1	12/10/2018 6:04:53 PM	41971
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 11:33:43 PM	41966
Surr: BFB	88.9	73.8-119		%Rec	1	12/10/2018 11:33:43 PM	41966
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 11:33:43 PM	41966
Toluene	ND	0.046		mg/Kg	1	12/10/2018 11:33:43 PM	41966
Ethylbenzene	ND	0.046		mg/Kg	1	12/10/2018 11:33:43 PM	41966
Xylenes, Total	ND	0.092		mg/Kg	1	12/10/2018 11:33:43 PM	41966
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	12/10/2018 11:33:43 PM	41966

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-021 **Matrix:** SOIL

Client Sample ID: S-20 3' R
Collection Date: 12/5/2018 4:00:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	8200	750		mg/Kg	500	12/10/2018 7:40:16 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 7:15:25 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 7:15:25 PM	41977
Surr: DNOP	86.3	50.6-138		%Rec	1	12/10/2018 7:15:25 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 1:34:13 PM	41968
Surr: BFB	86.3	73.8-119		%Rec	1	12/10/2018 1:34:13 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	12/10/2018 2:06:36 PM	41968
Toluene	ND	0.047		mg/Kg	1	12/10/2018 2:06:36 PM	41968
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 2:06:36 PM	41968
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 2:06:36 PM	41968
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	12/10/2018 2:06:36 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 2:06:36 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-022 **Matrix:** SOIL

Client Sample ID: S-21 2.5'
Collection Date: 12/5/2018 4:10:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	190	30		mg/Kg	20	12/8/2018 3:22:09 AM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2018 7:38:50 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 7:38:50 PM	41977
Surr: DNOP	92.8	50.6-138		%Rec	1	12/10/2018 7:38:50 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2018 2:42:24 PM	41968
Surr: BFB	78.4	73.8-119		%Rec	1	12/10/2018 2:42:24 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.025		mg/Kg	1	12/10/2018 2:35:09 PM	41968
Toluene	ND	0.050		mg/Kg	1	12/10/2018 2:35:09 PM	41968
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2018 2:35:09 PM	41968
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2018 2:35:09 PM	41968
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	12/10/2018 2:35:09 PM	41968
Surr: Toluene-d8	106	70-130		%Rec	1	12/10/2018 2:35:09 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-023 **Matrix:** SOIL

Client Sample ID: S-21 3' R
Collection Date: 12/5/2018 4:20:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	30		mg/Kg	20	12/8/2018 4:24:13 AM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/10/2018 8:02:18 PM	41977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2018 8:02:18 PM	41977
Surr: DNOP	91.0	50.6-138		%Rec	1	12/10/2018 8:02:18 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2018 3:05:09 PM	41968
Surr: BFB	84.2	73.8-119		%Rec	1	12/10/2018 3:05:09 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 4:00:44 PM	41968
Toluene	ND	0.048		mg/Kg	1	12/10/2018 4:00:44 PM	41968
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2018 4:00:44 PM	41968
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2018 4:00:44 PM	41968
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	12/10/2018 4:00:44 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 4:00:44 PM	41968

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

Analytical Report
Lab Order **1812375**
Date Reported: **12/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-024 **Matrix:** SOIL

Client Sample ID: S-22 3' R
Collection Date: 12/5/2018 4:30:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	66	30		mg/Kg	20	12/8/2018 4:36:37 AM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/10/2018 8:25:51 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2018 8:25:51 PM	41977
Surr: DNOP	91.1	50.6-138		%Rec	1	12/10/2018 8:25:51 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2018 3:27:41 PM	41968
Surr: BFB	79.9	73.8-119		%Rec	1	12/10/2018 3:27:41 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	12/10/2018 4:29:17 PM	41968
Toluene	ND	0.047		mg/Kg	1	12/10/2018 4:29:17 PM	41968
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2018 4:29:17 PM	41968
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2018 4:29:17 PM	41968
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	12/10/2018 4:29:17 PM	41968
Surr: Toluene-d8	105	70-130		%Rec	1	12/10/2018 4:29:17 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-025 **Matrix:** SOIL

Client Sample ID: S-23 2' R
Collection Date: 12/5/2018 4:40:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	1200	75		mg/Kg	50	12/10/2018 7:52:40 PM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	2300	99		mg/Kg	10	12/11/2018 3:23:44 PM	41977
Motor Oil Range Organics (MRO)	890	490		mg/Kg	10	12/11/2018 3:23:44 PM	41977
Surr: DNOP	0	50.6-138	S	%Rec	10	12/11/2018 3:23:44 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/10/2018 12:48:50 PM	41968
Surr: BFB	118	73.8-119		%Rec	1	12/10/2018 12:48:50 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.023		mg/Kg	1	12/10/2018 4:57:54 PM	41968
Toluene	ND	0.046		mg/Kg	1	12/10/2018 4:57:54 PM	41968
Ethylbenzene	ND	0.046		mg/Kg	1	12/10/2018 4:57:54 PM	41968
Xylenes, Total	ND	0.092		mg/Kg	1	12/10/2018 4:57:54 PM	41968
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	12/10/2018 4:57:54 PM	41968
Surr: Toluene-d8	104	70-130		%Rec	1	12/10/2018 4:57:54 PM	41968

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Limerock Malco
Lab ID: 1812375-026 **Matrix:** SOIL

Client Sample ID: S-24 2.5'
Collection Date: 12/5/2018 4:50:00 PM
Received Date: 12/7/2018 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	250	30		mg/Kg	20	12/8/2018 5:01:25 AM	41984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/11/2018 3:01:44 PM	41977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/11/2018 3:01:44 PM	41977
Surr: DNOP	73.2	50.6-138		%Rec	1	12/11/2018 3:01:44 PM	41977
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2018 3:50:15 PM	41968
Surr: BFB	81.3	73.8-119		%Rec	1	12/10/2018 3:50:15 PM	41968
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**AG**
Benzene	ND	0.025		mg/Kg	1	12/10/2018 5:54:51 PM	41968
Toluene	ND	0.049		mg/Kg	1	12/10/2018 5:54:51 PM	41968
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2018 5:54:51 PM	41968
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2018 5:54:51 PM	41968
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	12/10/2018 5:54:51 PM	41968
Surr: Toluene-d8	103	70-130		%Rec	1	12/10/2018 5:54:51 PM	41968

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

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41979** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **41979** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1877423** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-41979** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **41979** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1877424** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID **MB-41984** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **41984** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1877456** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-41984** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **41984** RunNo: **56164**
Prep Date: **12/7/2018** Analysis Date: **12/8/2018** SeqNo: **1877457** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

WO#: 1812375

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **LCS-41977** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877368** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.2	70	130			
Surr: DNOP	5.2		5.000		103	50.6	138			

Sample ID **MB-41977** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **41977** RunNo: **56204**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877369** 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	9.9		10.00		99.3	50.6	138			

Sample ID **MB-41971** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **41971** RunNo: **56203**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877371** 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	9.1		10.00		91.1	50.6	138			

Sample ID **LCS-41971** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **41971** RunNo: **56203**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	70	130			
Surr: DNOP	4.7		5.000		93.7	50.6	138			

Sample ID **1812375-020AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-19 1'** Batch ID: **41971** RunNo: **56203**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.7	48.31	0	87.6	53.5	126			
Surr: DNOP	4.2		4.831		86.5	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **1812375-020AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-19 1'** Batch ID: **41971** RunNo: **56203**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878269** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	48.03	0	85.9	53.5	126	2.55	21.7	
Surr: DNOP	4.1		4.803		85.0	50.6	138	0	0	

Sample ID **LCS-42041** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **42041** RunNo: **56237**
Prep Date: **12/11/2018** Analysis Date: **12/12/2018** SeqNo: **1881116** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.7	50.6	138			

Sample ID **MB-42041** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **42041** RunNo: **56237**
Prep Date: **12/11/2018** Analysis Date: **12/12/2018** SeqNo: **1881117** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.0	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41966** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877902** 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	1000		1000		105	73.8	119			

Sample ID **LCS-41966** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80.1	123			
Surr: BFB	1200		1000		116	73.8	119			

Sample ID **1812375-001AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-11 0'** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.30	0	114	77.8	128			
Surr: BFB	1100		971.8		117	73.8	119			

Sample ID **1812375-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-11 0'** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877906** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.88	0	97.4	77.8	128	13.1	20	
Surr: BFB	1000		995.0		104	73.8	119	0	0	

Sample ID **MB-41975** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877926** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.7	73.8	119			

Sample ID **LCS-41975** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877927** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		111	73.8	119			

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

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41968** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877994** 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	890		1000		89.1	73.8	119			

Sample ID **LCS-41968** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877995** 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	95.0	80.1	123			
Surr: BFB	1100		1000		113	73.8	119			

Sample ID **1812375-021AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-20 3' R** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877997** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.22	0	88.6	77.8	128			
Surr: BFB	950		969.0		97.5	73.8	119			

Sample ID **1812375-021AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-20 3' R** Batch ID: **41968** RunNo: **56221**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877998** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.51	0	87.0	77.8	128	0.608	20	
Surr: BFB	950		980.4		96.6	73.8	119	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41966** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877944** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID **LCS-41966** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877945** 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	97.0	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID **1812375-002AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-11 .5' R** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877948** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9381	0	95.4	63.9	127			
Toluene	0.95	0.047	0.9381	0.009623	100	69.9	131			
Ethylbenzene	0.96	0.047	0.9381	0	103	71	132			
Xylenes, Total	2.9	0.094	2.814	0	104	71.8	131			
Surr: 4-Bromofluorobenzene	0.99		0.9381		105	80	120			

Sample ID **1812375-002AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-11 .5' R** Batch ID: **41966** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877949** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9737	0	93.8	63.9	127	2.06	20	
Toluene	0.97	0.049	0.9737	0.009623	98.2	69.9	131	1.55	20	
Ethylbenzene	0.98	0.049	0.9737	0	101	71	132	1.77	20	
Xylenes, Total	3.0	0.097	2.921	0	102	71.8	131	1.44	20	
Surr: 4-Bromofluorobenzene	1.0		0.9737		105	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41975** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877968** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **LCS-41975** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **41975** RunNo: **56220**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1877969** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		111	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **1812375-022ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-21 2.5'** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878735** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9756	0	93.9	70	130			
Toluene	0.95	0.049	0.9756	0	97.2	70	130			
Ethylbenzene	1.0	0.049	0.9756	0	104	70	130			
Xylenes, Total	3.0	0.098	2.927	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.4878		105	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4878		93.5	70	130			
Surr: Dibromofluoromethane	0.53		0.4878		108	70	130			
Surr: Toluene-d8	0.50		0.4878		102	70	130			

Sample ID **1812375-022amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-21 2.5'** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878736** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9766	0	92.7	70	130	1.23	20	
Toluene	0.97	0.049	0.9766	0	99.8	70	130	2.73	20	
Ethylbenzene	0.99	0.049	0.9766	0	101	70	130	2.45	0	
Xylenes, Total	3.0	0.098	2.930	0	103	70	130	0.988	0	
Surr: 1,2-Dichloroethane-d4	0.51		0.4883		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4883		92.7	70	130	0	0	
Surr: Dibromofluoromethane	0.54		0.4883		110	70	130	0	0	
Surr: Toluene-d8	0.51		0.4883		104	70	130	0	0	

Sample ID **LCS-41968** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878755** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	99.8	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.52		0.5000		105	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812375**

Hall Environmental Analysis Laboratory, Inc.

13-Dec-18

Client: Talon Artesia
Project: Limerock Malco

Sample ID **MB-41968** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **41968** RunNo: **56208**
Prep Date: **12/7/2018** Analysis Date: **12/10/2018** SeqNo: **1878756** 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	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.53		0.5000		106	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: 1812375 RcptNo: 1

Received By: Victoria Zellar 12/7/2018 8:45:00 AM Victoria Zellar

Completed By: Jazzmine Burkhead 12/7/2018 9:09:30 AM

Reviewed By: JB 12-7-18

Labeled by: ENM 12/7/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted?
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 ☐ Checked by:

ENM 12/7/18

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	4.3	Good	Yes			

Chain-of-Custody Record

Client: Tarbow ILPE

Mailing Address: 408 W Texas Ave
88210 Artesia, NM

Phone #: 575-746-8768

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 48 hr

Project Name: Lovecraft - Malco

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler: Dakota Jones

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.3

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. 1812375	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 (300)				Air Bubbles (Y or N)
12/5	1:00 pm	S	S-11 0'	1 Glass	ice	-001	✓		✓									✓				
12/5	1:10 pm		S-11 .5' R			-002																
12/5	1:20 pm		S-12 0'			-003																
12/5	1:30 pm		S-12 .5' R			-004																
12/5	1:40 pm		S-13 0'			-005																
12/5	1:50 pm		S-13 1' R			-006																
12/5	2:00 pm		S-14 0'			-007																
12/5	2:10 pm		S-14 1'			-008																
12/5	2:20 pm		S-15 0'			-009																
12/5	2:30 pm		S-15 1'			-010																
12/5	2:40 pm		S-16 0'			-011																
12/5	2:50 pm		S-16 .5' R			-012																

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
12/6/18	1300	[signature]	[signature]	12/6/18 1300	
12/6/18	1900	[signature]	[signature]	12/7/18 8:45	Cooler #2 12/7/18 8:45

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.

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave
88210 Artesia, NM

Phone #: 575-746-8768

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 48 hrs

Project Name:
Limerock - Mulco

Project #:
701307.116.01

Project Manager:
Chas Jones

Sampler: Darcy Jones

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.3

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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. 1812375	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)	Chloride (300.0)				Air Bubbles (Y or N)
12/5	5:00 pm	S	S-24 3'	1 glass	ice	-013	/		/									/				
12/5	5:10 pm	S	S-24 35'E	1 glass	ice	-014	/		/									/				

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
12/6/18	1300	[signature]	[signature]	12/6/18 1300	
12/6/18	1900	[signature]	[signature]	12/7/18 8:45	Courier VOZ 12/7/18 8:45

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.

Chain-of-Custody Record

Client: Talon / LPE

Mailing Address: 408 W Texas Ave
88210 Artesia NM

Phone #: 575-746-8768

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 48 hrs

Project Name: Limerock - Mylo

Project #: 701307.116.01

Project Manager: Chris Jones

Sampler: Dakota Jones

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.3

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. 1812375	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 (300)				Air Bubbles (Y or N)
12/5	3:00 pm	S	S-17 0'	1 glass	ice	-015	✓		✓									✓				
12/5	3:10 pm		S-17 1'			-016																
12/5	3:20 pm		S-18 0'			-017																
12/5	3:30 pm		S-18 .5' E			-018																
12/5	3:40 pm		S-19 0'			-019																
12/5	3:50 pm		S-19 1'			-020																
12/5	4:00 pm		S-20 3' E			-021																
12/5	4:10 pm		S-21 2.5'			-022																
12/5	4:20 pm		S-21 3' E			-023																
12/5	4:30 pm		S-22 3' E			-024																
12/5	4:40 pm		S-23 2' E			-025																
12/5	4:50 pm		S-24 2.5'			-026																

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/6/18	1300			12/6/18	1300
12/6/18	1900		Victoria Hallen	12/7/18	8:45

Remarks:

Courier VOZ 12/7/18 8:45

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.

CARDINAL Laboratories

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

January 02, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MALCO

Enclosed are the results of analyses for samples received by the laboratory on 12/26/18 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/26/2018	Sampling Date:	12/21/2018
Reported:	01/02/2019	Sampling Type:	Soil
Project Name:	MALCO	Sampling Condition:	Cool & Intact
Project Number:	701307.116.01 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

Sample ID: S - 17 3' (H803786-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 17 4' (H803786-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 18 1' (H803786-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 23 3' (H803786-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/31/2018	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/26/2018	Sampling Date:	12/21/2018
Reported:	01/02/2019	Sampling Type:	Soil
Project Name:	MALCO	Sampling Condition:	Cool & Intact
Project Number:	701307.116.01 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

Sample ID: S - 29 0' (H803786-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 29 1' (H803786-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 30 0' (H803786-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 30 1' (H803786-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 31 0' (H803786-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/31/2018	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/26/2018	Sampling Date:	12/21/2018
Reported:	01/02/2019	Sampling Type:	Soil
Project Name:	MALCO	Sampling Condition:	Cool & Intact
Project Number:	701307.116.01 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

Sample ID: S - 32 0' (H803786-10)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/31/2018	ND	416	104	400	0.00	

Sample ID: S - 32 1' (H803786-11)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	12/31/2018	ND	416	104	400	3.92	

Sample ID: S - 33 0' (H803786-12)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	3.92	

Sample ID: S - 33 1' (H803786-13)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/31/2018	ND	416	104	400	3.92	

Sample ID: S - 34 0' (H803786-14)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/26/2018	Sampling Date:	12/21/2018
Reported:	01/02/2019	Sampling Type:	Soil
Project Name:	MALCO	Sampling Condition:	Cool & Intact
Project Number:	701307.116.01 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	LIMEROCK - EDDY CO NM		

Sample ID: S - 34 1' (H803786-15)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2018	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Talon/LPE	BILL TO	
Project Manager:	D. ADKINS	P.O. #:	
Address:	408 W Texas Ave	Company:	TALON
City:	Artesia	State: NM Zip:	Attn:
Phone #:	575.441.4935	Fax #:	Address:
Project #:	701307.116.01	Project Owner: Lime Rock	City:
Project Name:	MALCO Battery		State: Zip:
Project Location:	Eddy Co NM		Phone #:
Sampler Name:	D. ADKINS		Fax #:

ANALYSIS REQUEST: Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Chlorides
H803786 1	S-17 3'	G	1			✓					✓		12/21/18	2200	✓
2	S-17 4'													2205	
3	S-18 1'													1305	
4	S-23 3'													2005	
5	S-29 0'													140	
6	S-29 1'													144	
7	S-30 0'													150	
8	S-30 1' 12/26/18													153	
9	S-32 1' TO 0'													210	
10	S-32 0'													225	

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Relinquished By:	Date: 12-26-18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 12:05		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: 4.4° #97	Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	TO

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	TALON / LPC	BILL TO	
Project Manager:	D. ADKINS	P.O. #:	
Address:	408 W. Texas Ave	Company:	TALON
City:	Artesia State: NM Zip:	Attn:	
Phone #:	575.441.4835 Fax #:	Address:	
Project #:	701307.116.01 Project Owner: Lime Rock	City:	
Project Name:	Malco Battery	State: Zip:	
Project Location:	Eddy Co, NM	Phone #:	
Sampler Name:	D. ADKINS	Fax #:	

ANALYSIS REQUEST: Chlorides

FOR LAB USE ONLY Lab I.D. H803786	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Chlorides
11	S-32 1'	G	1			✓					✓		12/21/18	240	✓
12	S-33 0'	G	1			✓					✓		12/21	250	✓
13	S-33 1'	G	1			✓					✓		12/21	255	✓
14	S-34 0'	G	1			✓					✓		12/21	310	✓
15	S-34 1'	G	1			✓					✓		12/21	315	✓
	TD 12/26/18														

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 12-26-18 Time: 12:05	Received By: Samara Rodriguez	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.4°C #97	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO

REMARKS:

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

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 23, 2019

David Adkins
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Malco Battery

OrderNo.: 1901702

Dear David Adkins:

Hall Environmental Analysis Laboratory received 28 sample(s) on 1/17/2019 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 **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-001 **Matrix:** SOIL

Client Sample ID: B-1 3'
Collection Date: 1/15/2019 10:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	130	30		mg/Kg	20	1/18/2019 12:18:18 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-002
Matrix: SOIL

Client Sample ID: B-1 4'
Collection Date: 1/15/2019 10:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	71	30		mg/Kg	20	1/18/2019 1:20:19 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-003 **Matrix:** SOIL

Client Sample ID: B-1 6'
Collection Date: 1/15/2019 10:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	45	30		mg/Kg	20	1/18/2019 1:32:44 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-004 **Matrix:** SOIL

Client Sample ID: B-1 8'
Collection Date: 1/15/2019 10:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 1:45:09 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-005 **Matrix:** SOIL

Client Sample ID: B-1 10'
Collection Date: 1/15/2019 10:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 1:57:33 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-006 **Matrix:** SOIL

Client Sample ID: B-2 3'
Collection Date: 1/15/2019 11:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	290	30		mg/Kg	20	1/21/2019 1:43:59 PM	42718
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/21/2019 11:38:54 AM	42699
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/21/2019 11:38:54 AM	42699
Surr: DNOP	103	50.6-138		%Rec	1	1/21/2019 11:38:54 AM	42699
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/18/2019 11:59:23 PM	42679
Surr: BFB	96.1	73.8-119		%Rec	1	1/18/2019 11:59:23 PM	42679

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-007 **Matrix:** SOIL

Client Sample ID: B-2 5'
Collection Date: 1/15/2019 11:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	150	30		mg/Kg	20	1/21/2019 1:56:24 PM	42718
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/21/2019 12:00:53 PM	42699
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/21/2019 12:00:53 PM	42699
Surr: DNOP	106	50.6-138		%Rec	1	1/21/2019 12:00:53 PM	42699
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/19/2019 12:21:57 AM	42679
Surr: BFB	94.5	73.8-119		%Rec	1	1/19/2019 12:21:57 AM	42679

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-008 **Matrix:** SOIL

Client Sample ID: B-2 10'
Collection Date: 1/15/2019 11:00:00 AM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	ND	30		mg/Kg	20	1/21/2019 2:08:48 PM	42718
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/21/2019 12:23:05 PM	42699
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/21/2019 12:23:05 PM	42699
Surr: DNOP	97.9	50.6-138		%Rec	1	1/21/2019 12:23:05 PM	42699
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2019 12:44:28 AM	42679
Surr: BFB	93.9	73.8-119		%Rec	1	1/19/2019 12:44:28 AM	42679

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-009 **Matrix:** SOIL

Client Sample ID: B-3 3'
Collection Date: 1/15/2019 12:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	5700	300		mg/Kg	200	1/21/2019 7:56:18 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-010 **Matrix:** SOIL

Client Sample ID: B-3 5'
Collection Date: 1/15/2019 12:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	210	30		mg/Kg	20	1/18/2019 2:47:12 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-011 **Matrix:** SOIL

Client Sample ID: B-3 7'
Collection Date: 1/15/2019 12:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	200	30		mg/Kg	20	1/18/2019 3:24:26 PM	42696

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-012 **Matrix:** SOIL

Client Sample ID: B-3 10'
Collection Date: 1/15/2019 12:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	51	30		mg/Kg	20	1/18/2019 3:36:51 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-013 **Matrix:** SOIL

Client Sample ID: B-4 3'
Collection Date: 1/15/2019 1:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	30		mg/Kg	20	1/18/2019 3:49:15 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-014 **Matrix:** SOIL

Client Sample ID: B-4 5'
Collection Date: 1/15/2019 1:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	55	30		mg/Kg	20	1/18/2019 4:01:40 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-015 **Matrix:** SOIL

Client Sample ID: B-4 7'
Collection Date: 1/15/2019 1:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 4:14:05 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-016 **Matrix:** SOIL

Client Sample ID: B-4 10'
Collection Date: 1/15/2019 1:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 4:26:29 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-017 **Matrix:** SOIL

Client Sample ID: B-5 3'
Collection Date: 1/15/2019 2:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	38	30		mg/Kg	20	1/18/2019 4:38:54 PM	42696

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-018 **Matrix:** SOIL

Client Sample ID: B-5 5'
Collection Date: 1/15/2019 2:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	49	30		mg/Kg	20	1/18/2019 6:30:34 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-019 **Matrix:** SOIL

Client Sample ID: B-5 7'
Collection Date: 1/15/2019 2:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	30	30		mg/Kg	20	1/18/2019 6:42:58 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-020 **Matrix:** SOIL

Client Sample ID: B-5 10'
Collection Date: 1/15/2019 2:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 6:55:23 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-021 **Matrix:** SOIL

Client Sample ID: B-6 3'
Collection Date: 1/15/2019 3:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	470	30		mg/Kg	20	1/18/2019 7:07:48 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-022 **Matrix:** SOIL

Client Sample ID: B-6 5'
Collection Date: 1/15/2019 3:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	1300	75		mg/Kg	50	1/21/2019 8:08:43 PM	42701

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-023 **Matrix:** SOIL

Client Sample ID: B-6 7'
Collection Date: 1/15/2019 3:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	290	30		mg/Kg	20	1/18/2019 7:32:37 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-024 **Matrix:** SOIL

Client Sample ID: B-6 10'
Collection Date: 1/15/2019 3:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 8:34:40 PM	42701

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-025 **Matrix:** SOIL

Client Sample ID: B-7 3'
Collection Date: 1/15/2019 4:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	74	30		mg/Kg	20	1/18/2019 8:47:05 PM	42701

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

Analytical Report
Lab Order **1901702**
Date Reported: **1/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-026 **Matrix:** SOIL

Client Sample ID: B-7 5'
Collection Date: 1/15/2019 4:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	1/18/2019 8:59:29 PM	42701

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-027 **Matrix:** SOIL

Client Sample ID: B-7 7'
Collection Date: 1/15/2019 4:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	39	30		mg/Kg	20	1/18/2019 9:11:53 PM	42701

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Project: Malco Battery
Lab ID: 1901702-028
Matrix: SOIL
Client Sample ID: B-7 10'
Collection Date: 1/15/2019 4:00:00 PM
Received Date: 1/17/2019 8:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	35	30		mg/Kg	20	1/18/2019 9:24:18 PM	42701

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1901702**

23-Jan-19

Client: Talon Artesia
Project: Malco Battery

Sample ID **MB-42696** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **42696** RunNo: **57105**
Prep Date: **1/18/2019** Analysis Date: **1/18/2019** SeqNo: **1910647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-42696** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **42696** RunNo: **57105**
Prep Date: **1/18/2019** Analysis Date: **1/18/2019** SeqNo: **1910648** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Sample ID **1901702-005AMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**
Client ID: **B-1 10'** Batch ID: **42696** RunNo: **57105**
Prep Date: **1/18/2019** Analysis Date: **1/18/2019** SeqNo: **1910665** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30	15.00	0	0	60.8	141	0	20	S

Sample ID **MB-42701** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **42701** RunNo: **57105**
Prep Date: **1/18/2019** Analysis Date: **1/18/2019** SeqNo: **1910677** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-42701** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **42701** RunNo: **57105**
Prep Date: **1/18/2019** Analysis Date: **1/18/2019** SeqNo: **1910678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID **MB-42718** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **42718** RunNo: **57159**
Prep Date: **1/21/2019** Analysis Date: **1/21/2019** SeqNo: **1911921** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1901702**

23-Jan-19

Client: Talon Artesia
Project: Malco Battery

Sample ID **LCS-42718**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**	
Client ID: **LCSS**	Batch ID: **42718**	RunNo: **57159**	
Prep Date: **1/21/2019**	Analysis Date: **1/21/2019**	SeqNo: **1911922**	Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1901702**

23-Jan-19

Client: Talon Artesia
Project: Malco Battery

Sample ID **LCS-42699** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **42699** RunNo: **57128**
Prep Date: **1/18/2019** Analysis Date: **1/21/2019** SeqNo: **1911175** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	63.9	124			
Surr: DNOP	4.6		5.000		92.6	50.6	138			

Sample ID **MB-42699** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **42699** RunNo: **57128**
Prep Date: **1/18/2019** Analysis Date: **1/21/2019** SeqNo: **1911176** 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		108	50.6	138			

Sample ID **1901702-006AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **B-2 3'** Batch ID: **42699** RunNo: **57128**
Prep Date: **1/18/2019** Analysis Date: **1/21/2019** SeqNo: **1911289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.3	46.64	2.802	116	53.5	126			
Surr: DNOP	4.8		4.664		102	50.6	138			

Sample ID **1901702-006AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **B-2 3'** Batch ID: **42699** RunNo: **57128**
Prep Date: **1/18/2019** Analysis Date: **1/21/2019** SeqNo: **1911290** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.6	48.12	2.802	106	53.5	126	5.17	21.7	
Surr: DNOP	4.6		4.812		96.2	50.6	138	0	0	

Sample ID **MB-42722** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **42722** RunNo: **57155**
Prep Date: **1/21/2019** Analysis Date: **1/22/2019** SeqNo: **1912133** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	50.6	138			

Sample ID **LCS-42722** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **42722** RunNo: **57155**
Prep Date: **1/21/2019** Analysis Date: **1/22/2019** SeqNo: **1912134** Units: **%Rec**

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1901702**

23-Jan-19

Client: Talon Artesia
Project: Malco Battery

Sample ID	**LCS-42722**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**
Client ID:	**LCSS**	Batch ID:	**42722**	RunNo:	**57155**
Prep Date:	**1/21/2019**	Analysis Date:	**1/22/2019**	SeqNo:	**1912134** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.4	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901702

23-Jan-19

Client: Talon Artesia
Project: Malco Battery

Sample ID **MB-42661** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **42661** RunNo: **57116**
Prep Date: **1/17/2019** Analysis Date: **1/18/2019** SeqNo: **1910462** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.2	73.8	119			

Sample ID **LCS-42661** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **42661** RunNo: **57116**
Prep Date: **1/17/2019** Analysis Date: **1/18/2019** SeqNo: **1910463** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	73.8	119			

Sample ID **MB-42679** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **42679** RunNo: **57116**
Prep Date: **1/17/2019** Analysis Date: **1/18/2019** SeqNo: **1910482** 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	940		1000		94.0	73.8	119			

Sample ID **LCS-42679** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **42679** RunNo: **57116**
Prep Date: **1/17/2019** Analysis Date: **1/18/2019** SeqNo: **1910483** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80.1	123			
Surr: BFB	1100		1000		108	73.8	119			

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

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: 1901702 RcptNo: 1

Received By: Victoria Zellar 1/17/2019 8:50:00 AM Victoria Zellar

Completed By: Erin Melendrez 1/17/2019 11:52:32 AM

Reviewed By: DAD 1/17/19

LB: VVZ 1/17/19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑ VVZ 1/17/19
11. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ 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	3.4	Good	Yes			
2	1.0	Good	Yes			

Chain-of-Custody Record

Client: TALON / LPE

Mailing Address: 408 W. TEXAS AVE
ARTESIA, NM 88210

Phone #: 575.441.4835

email or Fax#: dadkins@talonlpe.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush 5 day Turn

Project Name: MALCO BATTERY

Project #: 701307.116.01

Project Manager: DAVID ADKINS

Sampler: D. ADKINS / C. JONES

On Ice: ☒ Yes ☐ No

Sample Temperature: °F = -0.6°C, 2 coolers
Temp including CF = 3.4°C, 1.0°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. 1901702	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)	TOTAL CHLORIDES			Air Bubbles (Y or N)
1/15/19	1000	S	B-1 3'	6 1	COOL	-001												✓			
			B-1 4'			-002															
			B-1 6'			-003															
			B-1 8'			-004															
			B-1 10'			-005															
	1100		B-2 3'			-006			✓												
			B-2 5'			-007			✓												
			B-2 10'			-008			✓												
	1200		B-3 3'			-009															
			B-3 5'			-010															
			B-3 7'			-011															
			B-3 10'			-012															

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/16/19	0830			1/16/19	0830
1/16/19	1900		Victoria Mellor	1/17/19	8:50

Remarks: P 1 of 3

Courier VZ 1/17/19

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

Chain-of-Custody Record

Client: TALON / LPE

Mailing Address: 408 W. TEXAS AVE
ARTESIA, NM 88210

Phone #: 575.441.4835

email or Fax#: dadkins@talonlpe.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day Turn
☒ Standard ☐ Rush _____

Project Name: MALCO BATTERY

Project #: 701307.116.01

Project Manager: DAVID ADKINS

Sampler: D. ADKINS / C. JONES

On Ice: ☒ Yes ☐ No

Sample Temperature: °F = 0.6°C 7 coolers
Temp. including CF = 3.4°C, 1.0°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. 1901702	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)	TOTAL CHLORIDES				Air Bubbles (Y or N)
1/15/19	1300	S	B-4 3'	G /	Cool	-013												✓				
			B-4 5'			-014																
			B-4 7'			-015																
			B-4 10'			-016																
	1400		B-5 3'			-017																
			B-5 5'			-018																
			B-5 7'			-019																
			B-5 10'			-020																
	1500		B-6 3'			-021																
			B-6 5'			-022																
			B-6 7'			-023																
			B-6 10'			-024																

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/16/19	0830			1/16/19	0830
1/16/19	1900			1/17/19	850

Remarks: P 2 of 3

courier WZ 1/17/19

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

Chain-of-Custody Record

Client: TALON / LPE

Mailing Address: 408 W. TEXAS AVE
ARTESIA, NM 88210

Phone #: 575.441.4835

email or Fax#: dadkins@talonlpe.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush 5 day Turn

Project Name: MALCO BATTERY

Project #: 701307.116.01

Project Manager: DAVID ADKINS

Sampler: D. ADKINS / C. JONES

On Ice: ☒ Yes ☐ No

Sample Temperature: CF=0.6°C 2 coolers
Temp including CF=3.4°C, 1.0°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. 1901702	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)	TOTAL CHLORIDES			Air Bubbles (Y or N)
1/15/19	1600	S	B-7 3'	G1	Cool	-025												✓			
			B-7 5'			-026												✓			
			B-7 7'			-027												✓			
			B-7 10'			-028												✓			

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/16/19	0830			1/16/19	0830
1/16/19	1900		Victoria Ballou	1/17/19	8:30

Remarks: P 3 of 3

Courier VV7 1/17/19

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