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TALON LPE

Soil Assessment and Remediation Work Plan

Tex Mack 11 Federal #118H
API # 30-015-41272

Prepared For:

Spur Energy Partners LLC
920 Memorial City Way Suite 1000
Houston, TX 77024

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, NM 88210

May 07, 2020

NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

Mr. Jim Amos
Bureau of Land Management
602 E. Green Street
Carlsbad, NM 88220

Subject: **Soil Assessment and Remediation Work Plan**
Tex Mack 11 Federal #118H
Eddy County, New Mexico
API # 30-015.41272

Spur Energy Partners LLC (Spur) 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 are contained herein.

Site Information

Tex Mack is located approximately thirty-six (36) miles East of Artesia, New Mexico. The legal location for this release is Unit Letter M, Section 11, Township 17 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.8440132 North and -103.8480377 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito-Dune land complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont deposits. Drainage courses in this area are typically well drained. The soil survey is referenced in Appendix II.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 96-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is not situated in a critical karst area, the karst map is referenced in Appendix I.

Site Characterization

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

Approximate Depth to Groundwater	**96 Feet/BGS**
☐Yes ☒No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐Yes ☒No	Within 200 feet of any lakebed, sinkhole or playa lake
☐Yes ☒No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
☐Yes ☒No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐Yes ☒No	Within 1000 feet of any fresh water well or spring
☐Yes ☒No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐Yes ☒No	Within 300 feet of a wetland
☐Yes ☒No	Within the area overlying a subsurface mine
☐Yes ☒No	Within an unstable area
☐Yes ☒No	Within a 100-year floodplain

This release did not occur within any of these areas and the depth to groundwater is less than 100-feet BGS. Based upon the analytical data collected for this subsurface investigation, the impacts from this release are below NMOCD remediation closure criteria. However, analytical data indicates chloride concentrations in excess of 600 mg/kg. As such, the upper 4-feet of this area will be restored to levels set forth in Table 1, 19.15.29 NMAC closure criteria. Therefore, the reclamation closure criteria for this site will be as follows:

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

Incident Description

According to the C-141: A compromised flowline traversing parallel to the lease incurred a leak. Approximately 8 bbl. of produced water impacted ground surface area. A vacuum truck was dispatched and utilized to recover approximately 3 bbl. of fluid. The initial C-141 is attached in Appendix III. The flow path extends approximately 71 feet in length by 4-8 feet wide and traverses through a bar ditch adjacent to a county-maintained roadway. The impacted area is illustrated on the attached site plan (Appendix I).

Site Assessment

On March 16, 2020 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. The soil samples were properly packaged, preserved, and transport to Hall Laboratories for analyses of Chloride (EPA 300.0), TPH (Method 8015M), and BTEX (8021B). Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in Appendix IV.

March 16, 2020, Sampling Event

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
SP1	2-3	ND	ND	ND	17	ND	17	9800
SP1	4	ND	.11	ND	ND	ND	0	8100
SP2	1-2	25	1.9	620	1100	440	2160	8300
	2-3	1.4	ND	39	12	ND	51	9100
	4	ND	ND	ND	ND	ND	ND	8200
S-3	1-2	ND	ND	ND	10	ND	10	10000
	2-3	ND	ND	ND	ND	ND	ND	4000
	4	ND	ND	ND	10	ND	ND	4900
S-4	1-2	ND	ND	ND	34	ND	ND	60
	2-3	ND	ND	16	16	ND	ND	ND
	4	ND	ND	ND	18	ND	ND	ND

ND= Non-Detect

On April 20, 2020, Talon personnel and equipment returned to the site. A Geoprobe rig was utilized to further delineate the previously sampled positions at which chloride concentrations were greater than 600 mg/kg. The analytical results are displayed in the following table.

Sample ID	Sample Date	Depth ft. (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S1A	4/20/2020	5'	NT	NT	NT	NT	NT	NT	**1100**
	4/20/2020	6'	NT	NT	NT	NT	NT	NT	**880**
	4/20/2020	7'	NT	NT	NT	NT	NT	NT	**8600**
	4/20/2020	8'	NT	NT	NT	NT	NT	NT	**9600**
	4/20/2020	9'	NT	NT	NT	NT	NT	NT	**1200**
	4/20/2020	10R	NT	NT	NT	NT	NT	NT	530
S2-3A	4/20/2020	5'	NT	NT	NT	NT	NT	NT	**5600**
	4/20/2020	6'	NT	NT	NT	NT	NT	NT	**2400**
	4/20/2020	7'	NT	NT	NT	NT	NT	NT	370
	4/20/2020	8'	NT	NT	NT	NT	NT	NT	200
S4A	4/20/2020	5'	NT	NT	NT	NT	NT	NT	ND
	4/20/2020	6'	NT	NT	NT	NT	NT	NT	ND
	4/20/2020	7'	NT	NT	NT	NT	NT	NT	ND

ND=Non-Detect
NT=Not-Tested

Proposed Remedial Actions

- Traffic control measures (signs, barrels, cones, and flagmen) will be utilized to ensure the safety of field personnel. Remediation activities will be carried out with diligence and extreme care due to safety concerns while excavating near a roadway.

- Excavate impacted soil to depths of 4'-deep at sample locations SP-1, SP-2 and SP-3.

- Install a 20-mil liner to encapsulate the remaining impacted soil from 4-9 feet deep.

- Collect confirmation horizontal sidewall delineation samples, ensuring clean up levels are met, as well as composite bottom soil samples documenting analyte levels left in place.

- The excavated area will be backfilled with locally obtained like-material. Once the backfilling activities are complete, the work area will be machine compacted and contoured to match the surrounding terrain.

- All excavated material (approximately 280 yards) will be hauled to a NMOCD approved solid waste disposal facility.

- The work area will be seeded with State Sandy Loam (SL) seed mixture at the prescribed rate utilizing a Cultipack seed drill.

- A Closure Report, complete with Final C-141, documenting site remediation activities will be furnished to all parties of concern upon project completion.

Variance Request

Based on the site characterization data, the depth to groundwater is approximately 96-feet BGS, this site is not located in a critical karst area, and site assessment data confirms vertical impacts extending only 6-9-feet deep. Therefore, on behalf of Spur Energy, we respectfully request a regulatory variance for permission to install a liner at 4-feet BS, before backfilling and restoring the area to its original condition.

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

Rebecca Pons
Project Manager

David J. Adkins
District Manager

Attachments:
Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data & FEMA Flood Map
Appendix III Initial C-141
Appendix IV Photo Documentation
Appendix V Laboratory Data

APPENDIX I

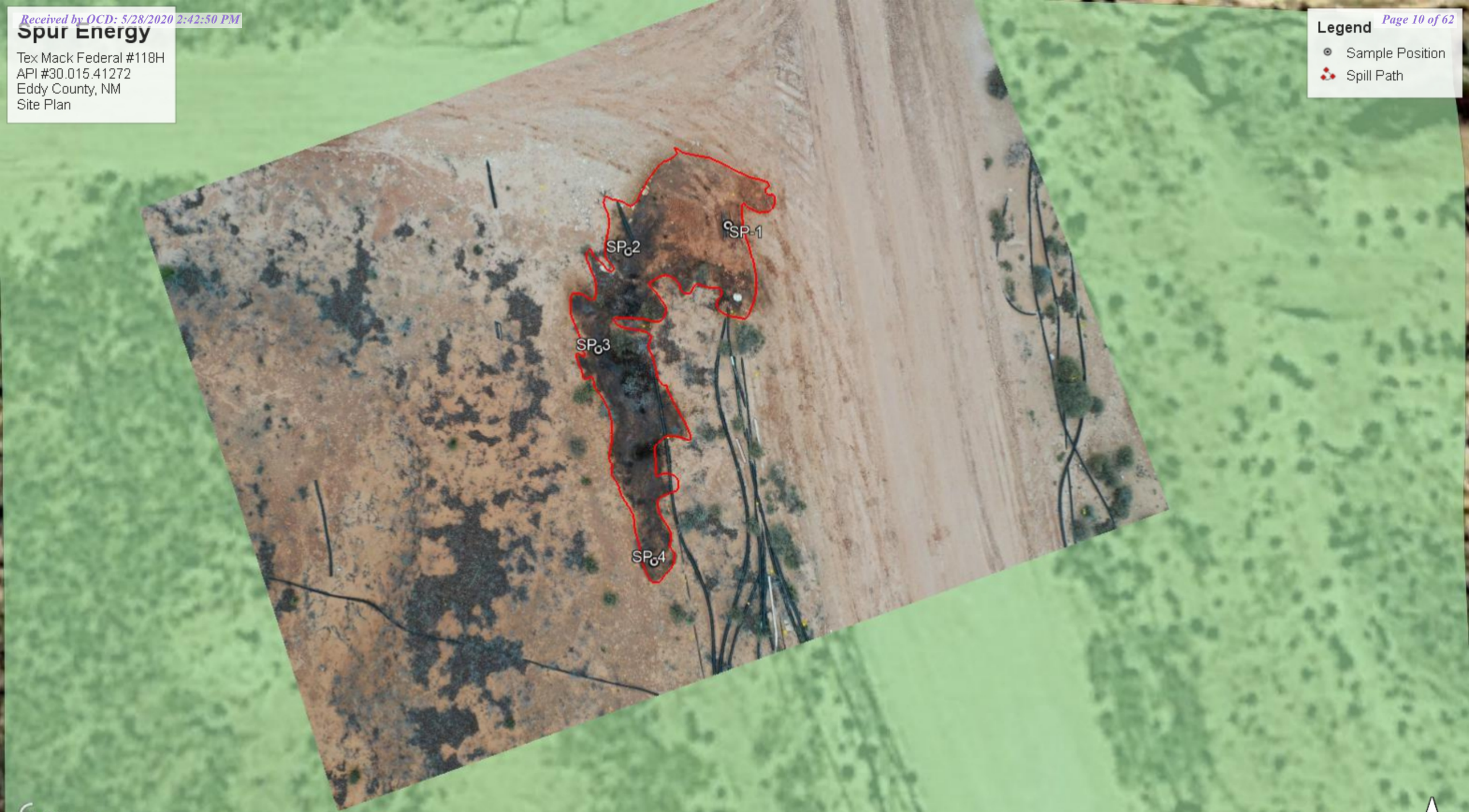
SITE MAPS

Tex Mack Federal #118H

Spur Energy Partners
API # 30-015-41272
Eddy County, NM
Site Map

Spur Energy

Tex Mack Federal #118H
API #30.015.41272
Eddy County, NM
Site Plan



Spur Energy Tex Mack #118H

Flowline Release
Eddy County
API #30-015-41272

Legend

- Sample Positions
- Flowline Release Point

Flowline Release Point

SP-1
SP-2
SP-3
SP-4

1000 ft

N

APPENDIX II

SOIL SURVEY,

GROUNDWATER DATA

Eddy Area, New Mexico

PD—Pajarito-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w55
Elevation: 3,000 to 5,000 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Dune land: 45 percent
Pajarito and similar soils: 45 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dune Land

Setting

Landform: Dune fields
Landform position (two-dimensional): Footslope, shoulder, backslope
Landform position (three-dimensional): Talf
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, interdunes, plains
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam
H2 - 9 to 36 inches: fine sandy loam
H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent
Hydric soil rating: No

Largo

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

Data Source Information

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

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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 14207 POD3		L	LE	2	3	3	31	16S	37E	606117	3636977	3321	240	96	144

Average Depth to Water: **96 feet**

Minimum Depth: **96 feet**

Maximum Depth: **96 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 608607 **Northing (Y):** 3634778.85 **Radius:** 6000

5/7/20 3:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

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	
District RP	
Facility ID	
Application ID	NRM2008551917

Release Notification

Responsible Party

Responsible Party: Spur Energy Partners LLC	OGRID: 328947
Contact Name: Kenny Kidd	Contact Telephone: 575-616-5400
Contact email: kkidd@spurellc.com	Incident # *(assigned by OCD)30-015-41272*
Contact mailing address: 920 Memorial City Way Suite 1000 Houston, TX 77024	

Location of Release Source

Latitude 32.8440132 Longitude -103.8480377 *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Tex Mack 11 Federal #118H	Site Type: Production
Date Release Discovered: March 13, 2020	API# *(if applicable)30-015-41272*

Unit Letter	Section	Township	Range	County
M	11	17S	31E	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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls)3
	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: This incident was due to a compromised flowline that leaked creating impact to pasture area. The impacted area measures approximately 30' X 10'. The flowline is supplied by the TEX Mack Federal #118H.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	NRM2008551917

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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: Rebecca Pons Title: Project Manager

Signature: Digitally signed by Rebecca Pons, DN: cn=Rebecca Pons, o=Talon LPE, ou=Artesia, email=Rpons@talonlpe.com, c=US, Date: 2020.03.26 15:01:48 -06'00' Date: 03/26/2020

email: Rpons@talonlpe.com Telephone: 575-441-0980

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	NRM2008551917

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	NRM2008551917

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: Rebecca Pons Title: Project Manager

Signature: Date: 03/25/2020

email: Rpons@talonlpe.com Telephone: 575-441-0980

OCD Only

Received by: Date:

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

SPUR Energy Tex Mack Federal #118H Flowline

PHOTO DOCUMENTATION

Release Point

Spill Path

Line Repair

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

March 24, 2020

Rebecca Pons

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

RE: Tex Mack 11 Fed 118H OrderNo.: 2003755

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 11 sample(s) on 3/17/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-1 2-3'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 10:50:00 AM
Lab ID: 2003755-001 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9800	300		mg/Kg	100	3/20/2020 5:22:24 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2020 12:44:03 AM	51164
Surr: BFB	98.8	70-130		%Rec	1	3/20/2020 12:44:03 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	17	9.8		mg/Kg	1	3/20/2020 2:51:08 AM	51176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2020 2:51:08 AM	51176
Surr: DNOP	88.3	55.1-146		%Rec	1	3/20/2020 2:51:08 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/20/2020 12:44:03 AM	51164
Toluene	0.19	0.047		mg/Kg	1	3/20/2020 12:44:03 AM	51164
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2020 12:44:03 AM	51164
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2020 12:44:03 AM	51164
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	3/20/2020 12:44:03 AM	51164
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	3/20/2020 12:44:03 AM	51164
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	3/20/2020 12:44:03 AM	51164
Surr: Toluene-d8	99.5	70-130		%Rec	1	3/20/2020 12:44:03 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-1 4'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:00:00 AM
Lab ID: 2003755-002 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8100	300		mg/Kg	100	3/20/2020 5:59:26 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2020 2:09:22 AM	51164
Surr: BFB	97.8	70-130		%Rec	1	3/20/2020 2:09:22 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2020 3:14:36 AM	51176
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2020 3:14:36 AM	51176
Surr: DNOP	89.3	55.1-146		%Rec	1	3/20/2020 3:14:36 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	0.11	0.024		mg/Kg	1	3/20/2020 2:09:22 AM	51164
Toluene	0.34	0.047		mg/Kg	1	3/20/2020 2:09:22 AM	51164
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2020 2:09:22 AM	51164
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2020 2:09:22 AM	51164
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	1	3/20/2020 2:09:22 AM	51164
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/20/2020 2:09:22 AM	51164
Surr: Dibromofluoromethane	97.5	70-130		%Rec	1	3/20/2020 2:09:22 AM	51164
Surr: Toluene-d8	97.4	70-130		%Rec	1	3/20/2020 2:09:22 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-2 1-2'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:03:00 AM
Lab ID: 2003755-003 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8300	300		mg/Kg	100	3/20/2020 6:11:47 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	620	24		mg/Kg	5	3/20/2020 7:21:23 AM	51164
Surr: BFB	110	70-130		%Rec	5	3/20/2020 7:21:23 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	1100	47		mg/Kg	5	3/20/2020 9:33:29 AM	51176
Motor Oil Range Organics (MRO)	440	230		mg/Kg	5	3/20/2020 9:33:29 AM	51176
Surr: DNOP	104	55.1-146		%Rec	5	3/20/2020 9:33:29 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	1.9	0.12		mg/Kg	5	3/20/2020 7:21:23 AM	51164
Toluene	20	0.24		mg/Kg	5	3/20/2020 7:21:23 AM	51164
Ethylbenzene	23	0.24		mg/Kg	5	3/20/2020 7:21:23 AM	51164
Xylenes, Total	25	0.48		mg/Kg	5	3/20/2020 7:21:23 AM	51164
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	5	3/20/2020 7:21:23 AM	51164
Surr: 4-Bromofluorobenzene	80.1	70-130		%Rec	5	3/20/2020 7:21:23 AM	51164
Surr: Dibromofluoromethane	96.2	70-130		%Rec	5	3/20/2020 7:21:23 AM	51164
Surr: Toluene-d8	100	70-130		%Rec	5	3/20/2020 7:21:23 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-2 2-3'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:04:00 AM
Lab ID: 2003755-004 **Matrix:** SOIL
Received Date: 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9100	300		mg/Kg	100	3/20/2020 6:24:07 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	39	4.6		mg/Kg	1	3/20/2020 3:34:32 AM	51164
Surr: BFB	103	70-130		%Rec	1	3/20/2020 3:34:32 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	3/20/2020 4:01:23 AM	51176
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2020 4:01:23 AM	51176
Surr: DNOP	89.1	55.1-146		%Rec	1	3/20/2020 4:01:23 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.023		mg/Kg	1	3/20/2020 3:34:32 AM	51164
Toluene	0.59	0.046		mg/Kg	1	3/20/2020 3:34:32 AM	51164
Ethylbenzene	1.2	0.046		mg/Kg	1	3/20/2020 3:34:32 AM	51164
Xylenes, Total	1.4	0.092		mg/Kg	1	3/20/2020 3:34:32 AM	51164
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	3/20/2020 3:34:32 AM	51164
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	3/20/2020 3:34:32 AM	51164
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	3/20/2020 3:34:32 AM	51164
Surr: Toluene-d8	98.7	70-130		%Rec	1	3/20/2020 3:34:32 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-2 4'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:05:00 AM
Lab ID: 2003755-005 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8200	300		mg/Kg	100	3/20/2020 6:36:28 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2020 4:02:58 AM	51164
Surr: BFB	98.9	70-130		%Rec	1	3/20/2020 4:02:58 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/20/2020 4:24:48 AM	51176
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2020 4:24:48 AM	51176
Surr: DNOP	86.1	55.1-146		%Rec	1	3/20/2020 4:24:48 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/20/2020 4:02:58 AM	51164
Toluene	ND	0.048		mg/Kg	1	3/20/2020 4:02:58 AM	51164
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2020 4:02:58 AM	51164
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2020 4:02:58 AM	51164
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	3/20/2020 4:02:58 AM	51164
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	3/20/2020 4:02:58 AM	51164
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	3/20/2020 4:02:58 AM	51164
Surr: Toluene-d8	102	70-130		%Rec	1	3/20/2020 4:02:58 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-3 1-2'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:08:00 AM
Lab ID: 2003755-006 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	10000	300		mg/Kg	100	3/23/2020 12:09:53 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2020 4:31:19 AM	51164
Surr: BFB	98.9	70-130		%Rec	1	3/20/2020 4:31:19 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	10	10		mg/Kg	1	3/20/2020 4:48:12 AM	51176
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/20/2020 4:48:12 AM	51176
Surr: DNOP	86.5	55.1-146		%Rec	1	3/20/2020 4:48:12 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/20/2020 4:31:19 AM	51164
Toluene	0.090	0.049		mg/Kg	1	3/20/2020 4:31:19 AM	51164
Ethylbenzene	0.11	0.049		mg/Kg	1	3/20/2020 4:31:19 AM	51164
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2020 4:31:19 AM	51164
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	3/20/2020 4:31:19 AM	51164
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/20/2020 4:31:19 AM	51164
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	3/20/2020 4:31:19 AM	51164
Surr: Toluene-d8	99.4	70-130		%Rec	1	3/20/2020 4:31:19 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-3 2-3'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:10:00 AM
Lab ID: 2003755-007 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4000	150		mg/Kg	50	3/20/2020 6:48:48 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2020 4:59:39 AM	51164
Surr: BFB	97.2	70-130		%Rec	1	3/20/2020 4:59:39 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/20/2020 5:11:35 AM	51176
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2020 5:11:35 AM	51176
Surr: DNOP	86.7	55.1-146		%Rec	1	3/20/2020 5:11:35 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.023		mg/Kg	1	3/20/2020 4:59:39 AM	51164
Toluene	ND	0.047		mg/Kg	1	3/20/2020 4:59:39 AM	51164
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2020 4:59:39 AM	51164
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2020 4:59:39 AM	51164
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	1	3/20/2020 4:59:39 AM	51164
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	3/20/2020 4:59:39 AM	51164
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	3/20/2020 4:59:39 AM	51164
Surr: Toluene-d8	99.7	70-130		%Rec	1	3/20/2020 4:59:39 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-3 4'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:12:00 AM
Lab ID: 2003755-008 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4900	150		mg/Kg	50	3/20/2020 7:01:10 PM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2020 5:27:58 AM	51164
Surr: BFB	98.1	70-130		%Rec	1	3/20/2020 5:27:58 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/20/2020 5:35:02 AM	51176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2020 5:35:02 AM	51176
Surr: DNOP	85.1	55.1-146		%Rec	1	3/20/2020 5:35:02 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/20/2020 5:27:58 AM	51164
Toluene	ND	0.049		mg/Kg	1	3/20/2020 5:27:58 AM	51164
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2020 5:27:58 AM	51164
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2020 5:27:58 AM	51164
Surr: 1,2-Dichloroethane-d4	87.2	70-130		%Rec	1	3/20/2020 5:27:58 AM	51164
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/20/2020 5:27:58 AM	51164
Surr: Dibromofluoromethane	93.8	70-130		%Rec	1	3/20/2020 5:27:58 AM	51164
Surr: Toluene-d8	102	70-130		%Rec	1	3/20/2020 5:27:58 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-4 1-2'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:15:00 AM
Lab ID: 2003755-009 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/20/2020 5:10:36 AM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2020 5:56:17 AM	51164
Surr: BFB	101	70-130		%Rec	1	3/20/2020 5:56:17 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	34	9.6		mg/Kg	1	3/20/2020 5:58:33 AM	51176
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2020 5:58:33 AM	51176
Surr: DNOP	89.9	55.1-146		%Rec	1	3/20/2020 5:58:33 AM	51176
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/20/2020 5:56:17 AM	51164
Toluene	ND	0.047		mg/Kg	1	3/20/2020 5:56:17 AM	51164
Ethylbenzene	0.079	0.047		mg/Kg	1	3/20/2020 5:56:17 AM	51164
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2020 5:56:17 AM	51164
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	3/20/2020 5:56:17 AM	51164
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/20/2020 5:56:17 AM	51164
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	3/20/2020 5:56:17 AM	51164
Surr: Toluene-d8	99.9	70-130		%Rec	1	3/20/2020 5:56:17 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-4 2-3'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:16:00 AM
Lab ID: 2003755-010 **Matrix:** SOIL
Received Date: 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/20/2020 5:22:57 AM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	16	4.8		mg/Kg	1	3/20/2020 6:24:38 AM	51164
Surr: BFB	103	70-130		%Rec	1	3/20/2020 6:24:38 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	3/19/2020 7:47:13 PM	51188
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2020 7:47:13 PM	51188
Surr: DNOP	88.0	55.1-146		%Rec	1	3/19/2020 7:47:13 PM	51188
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/20/2020 6:24:38 AM	51164
Toluene	0.10	0.048		mg/Kg	1	3/20/2020 6:24:38 AM	51164
Ethylbenzene	0.34	0.048		mg/Kg	1	3/20/2020 6:24:38 AM	51164
Xylenes, Total	0.44	0.096		mg/Kg	1	3/20/2020 6:24:38 AM	51164
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	3/20/2020 6:24:38 AM	51164
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	3/20/2020 6:24:38 AM	51164
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	3/20/2020 6:24:38 AM	51164
Surr: Toluene-d8	98.2	70-130		%Rec	1	3/20/2020 6:24:38 AM	51164

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

Qualifiers:

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

Analytical Report
Lab Order **2003755**
Date Reported: **3/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SP-4 4'
Project: Tex Mack 11 Fed 118H
Collection Date: 3/16/2020 11:17:00 AM
Lab ID: 2003755-011 **Matrix:** SOIL **Received Date:** 3/17/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	3/20/2020 5:35:16 AM	51232
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2020 6:52:59 AM	51164
Surr: BFB	99.7	70-130		%Rec	1	3/20/2020 6:52:59 AM	51164
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	18	9.3		mg/Kg	1	3/19/2020 8:59:37 PM	51188
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/19/2020 8:59:37 PM	51188
Surr: DNOP	94.9	55.1-146		%Rec	1	3/19/2020 8:59:37 PM	51188
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/20/2020 6:52:59 AM	51164
Toluene	ND	0.048		mg/Kg	1	3/20/2020 6:52:59 AM	51164
Ethylbenzene	0.051	0.048		mg/Kg	1	3/20/2020 6:52:59 AM	51164
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2020 6:52:59 AM	51164
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%Rec	1	3/20/2020 6:52:59 AM	51164
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	3/20/2020 6:52:59 AM	51164
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	3/20/2020 6:52:59 AM	51164
Surr: Toluene-d8	101	70-130		%Rec	1	3/20/2020 6:52:59 AM	51164

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**
24-Mar-20

Client: Talon Artesia
Project: Tex Mack 11 Fed 118H

Sample ID: **MB-51232** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **51232** RunNo: **67421**
Prep Date: **3/19/2020** Analysis Date: **3/20/2020** SeqNo: **2326807** Units: **mg/Kg**

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

Sample ID: **LCS-51232** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **51232** RunNo: **67421**
Prep Date: **3/19/2020** Analysis Date: **3/20/2020** SeqNo: **2326808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**

24-Mar-20

Client: Talon Artesia

Project: Tex Mack 11 Fed 118H

Sample ID: **LCS-51086**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **51086**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/16/2020**	SeqNo: **2320643**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	55.1	146			

Sample ID: **MB-51086**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51086**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/16/2020**	SeqNo: **2320644**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	55.1	146			

Sample ID: **LCS-51100**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **51100**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321410**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	55.1	146			

Sample ID: **MB-51100**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51100**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321412**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.4	55.1	146			

Sample ID: **2003755-010AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **SP-4 2-3'**	Batch ID: **51188**	RunNo: **67313**							
Prep Date: **3/18/2020**	Analysis Date: **3/19/2020**	SeqNo: **2326255**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	160	9.8	49.16	16.32	290	47.4	136			S
Surr: DNOP	4.2		4.916		85.5	55.1	146			

Sample ID: **2003755-010AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **SP-4 2-3'**	Batch ID: **51188**	RunNo: **67313**							
Prep Date: **3/18/2020**	Analysis Date: **3/19/2020**	SeqNo: **2326256**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	180	9.6	47.98	16.32	351	47.4	136	14.9	43.4	S
Surr: DNOP	4.2		4.798		87.3	55.1	146	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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**

24-Mar-20

Client: Talon Artesia

Project: Tex Mack 11 Fed 118H

Sample ID: **LCS-51188** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51188** RunNo: **67313**
Prep Date: **3/18/2020** Analysis Date: **3/19/2020** SeqNo: **2326278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.9	70	130			
Surr: DNOP	4.0		5.000		79.7	55.1	146			

Sample ID: **LCS-51201** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51201** RunNo: **67313**
Prep Date: **3/18/2020** Analysis Date: **3/20/2020** SeqNo: **2326279** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.7	55.1	146			

Sample ID: **MB-51188** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51188** RunNo: **67313**
Prep Date: **3/18/2020** Analysis Date: **3/19/2020** SeqNo: **2326280** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.5	55.1	146			

Sample ID: **MB-51201** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51201** RunNo: **67313**
Prep Date: **3/18/2020** Analysis Date: **3/20/2020** SeqNo: **2326281** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		86.0	55.1	146			

Sample ID: **MB-51176** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51176** RunNo: **67410**
Prep Date: **3/18/2020** Analysis Date: **3/19/2020** SeqNo: **2326560** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.5	55.1	146			

Sample ID: **LCS-51176** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51176** RunNo: **67410**
Prep Date: **3/18/2020** Analysis Date: **3/19/2020** SeqNo: **2326561** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**
24-Mar-20

Client: Talon Artesia
Project: Tex Mack 11 Fed 118H

Sample ID: **LCS-51176** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51176** RunNo: **67410**
Prep Date: **3/18/2020** Analysis Date: **3/19/2020** SeqNo: **2326561** 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	87.5	70	130			
Surr: DNOP	4.3		5.000		85.3	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**
24-Mar-20

Client: Talon Artesia
Project: Tex Mack 11 Fed 118H

Sample ID: **lcs-51164** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2326555** 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	95.4	70	130			
Toluene	1.1	0.050	1.000	0	105	70	130			
Ethylbenzene	1.1	0.050	1.000	0	109	70	130			
Xylenes, Total	3.2	0.10	3.000	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.1	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			

Sample ID: **mb-51164** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326556** 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	0.44		0.5000		87.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.8	70	130			

Sample ID: **2003755-001ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-1 2-3'** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326897** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9950	0.01852	89.4	70	130			
Toluene	1.2	0.050	0.9950	0.1923	99.5	70	130			
Ethylbenzene	1.1	0.050	0.9950	0.02765	108	70	130			
Xylenes, Total	3.3	0.10	2.985	0.02571	109	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.4975		96.9	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4975		102	70	130			
Surr: Dibromofluoromethane	0.47		0.4975		95.3	70	130			
Surr: Toluene-d8	0.50		0.4975		99.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**
24-Mar-20

Client: Talon Artesia
Project: Tex Mack 11 Fed 118H

Sample ID: **2003755-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-1 2-3'** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326898** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9569	0.01852	90.7	70	130	2.43	20	
Toluene	1.1	0.048	0.9569	0.1923	91.3	70	130	10.3	20	
Ethylbenzene	1.0	0.048	0.9569	0.02765	106	70	130	5.55	0	
Xylenes, Total	3.1	0.096	2.871	0.02571	108	70	130	4.53	0	
Surr: 1,2-Dichloroethane-d4	0.44		0.4785		91.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4785		94.3	70	130	0	0	
Surr: Dibromofluoromethane	0.45		0.4785		93.9	70	130	0	0	
Surr: Toluene-d8	0.48		0.4785		100	70	130	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 Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003755**
24-Mar-20

Client: Talon Artesia
Project: Tex Mack 11 Fed 118H

Sample ID: **lcs-51164** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2326645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.1	70	130			
Surr: BFB	490		500.0		97.3	70	130			

Sample ID: **mb-51164** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326646** 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		98.1	70	130			

Sample ID: **2003755-002ams** SampType: **MS** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SP-1 4'** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.99	1.913	81.8	70	130			
Surr: BFB	470		479.8		98.9	70	130			

Sample ID: **2003755-002amsd** SampType: **MSD** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **SP-1 4'** Batch ID: **51164** RunNo: **67428**
Prep Date: **3/17/2020** Analysis Date: **3/20/2020** SeqNo: **2326912** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.6	23.15	1.913	78.9	70	130	6.56	20	
Surr: BFB	460		463.0		98.7	70	130	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 Limit

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: 2003755 RcptNo: 1

Received By: **Desiree Dominguez** 3/17/2020 8:20:00 AM

Completed By: **Anne Thorne** 3/17/2020 10:31:30 AM

Reviewed By: 3/17/20

Chain of Custody

1. Is Chain of Custody sufficiently 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. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: ENH 3/17/20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			
2	4.5	Good	Yes			
3	1.0	Good	Yes			
4	1.8	Good	Yes			

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 72 hour Turn

☑ Standard ☐ Rush

Project Name: Tex Mack 11 Fed 118H

Project #: 702604.007.01

Project Manager: Rebecca Pons

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No

# of Coolers: 4

Cooler Temp (including CF): See Remarks

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 Name	Container Type and #	Preservative Type	HEAL No. 200355	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3-16-20	10:50	soil	SP-1 2-3'	4oz jar	ice	201	✓	✓					✓			
	11:00		SP-1 4'			202										
	11:03		SP-2 1-2'			203										
	11:04		SP-2 2-3'			204										
	11:05		SP-2 4'			205										
	11:08		SP-3 1-2'			206										
	11:10		SP-3 2-3'			207										
	11:12		SP-3 4'			208										
	11:15		SP-4 1-2'			209										
	11:16		SP-4 2-3'			210										
	11:17		SP-4 4'			211										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/16	1410				2/16/20	1620
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/16/20	1900			courier	3/17/20	8:20

Remarks: Please cc the following via email:

Dadkins@talonlpe.com

Rpons@talonlpe.com

1.4 + 0.2 = 1.6 1.6 + 0.2 = 1.8

4.3 + 0.2 = 4.5

0.8 + 0.2 = 1.0

* data needed early pm Friday

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

April 29, 2020

Rebecca Pons

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

RE: Tex Mack OrderNo.: 2004B01

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@5'
Project: Tex Mack
Collection Date: 4/20/2020
Lab ID: 2004B01-001 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	1100	60		mg/Kg	20	4/27/2020 11:55:17 AM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@6'
Project: Tex Mack
Collection Date: 4/20/2020 9:20:00 AM
Lab ID: 2004B01-002 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	880	60		mg/Kg	20	4/27/2020 12:32:19 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@7'
Project: Tex Mack
Collection Date: 4/20/2020 9:21:00 AM
Lab ID: 2004B01-003 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	8600	300		mg/Kg	100	4/28/2020 7:55:01 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@8'
Project: Tex Mack
Collection Date: 4/20/2020
Lab ID: 2004B01-004 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	9600	300		mg/Kg	100	4/28/2020 8:07:25 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@9'
Project: Tex Mack
Collection Date: 4/20/2020 9:45:00 AM
Lab ID: 2004B01-005 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	1200	60		mg/Kg	20	4/27/2020 1:09:22 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S1A@10R'
Project: Tex Mack
Collection Date: 4/20/2020
Lab ID: 2004B01-006 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	530	60		mg/Kg	20	4/27/2020 1:21:43 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S2-3A@5'
Project: Tex Mack
Collection Date: 4/20/2020 10:22:00 AM
Lab ID: 2004B01-007 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5600	150		mg/Kg	50	4/28/2020 8:19:50 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S2-3A@6'
Project: Tex Mack
Collection Date: 4/20/2020 10:27:00 AM
Lab ID: 2004B01-008 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2400	150		mg/Kg	50	4/28/2020 8:32:15 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S2-3A@7'
Project: Tex Mack
Collection Date: 4/20/2020 10:30:00 AM
Lab ID: 2004B01-009 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	370	60		mg/Kg	20	4/27/2020 2:23:25 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S2-3A@8'
Project: Tex Mack
Collection Date: 4/20/2020
Lab ID: 2004B01-010 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	200	60		mg/Kg	20	4/27/2020 2:35:46 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S4A@5'
Project: Tex Mack
Collection Date: 4/20/2020 12:00:00 PM
Lab ID: 2004B01-011 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	4/27/2020 2:48:06 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S4A@6'
Project: Tex Mack
Collection Date: 4/20/2020
Lab ID: 2004B01-012 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	4/27/2020 3:00:27 PM	52098

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

Qualifiers:

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

Analytical Report
Lab Order **2004B01**
Date Reported: **4/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S4A@7'R
Project: Tex Mack
Collection Date: 4/20/2020 11:08:00 AM
Lab ID: 2004B01-013 **Matrix:** SOIL **Received Date:** 4/25/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	4/27/2020 3:12:47 PM	52098

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004B01**
29-Apr-20

Client: Talon Artesia
Project: Tex Mack

Sample ID: **MB-52098**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **52098**	RunNo: **68462**							
Prep Date: **4/27/2020**	Analysis Date: **4/27/2020**	SeqNo: **2368953**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-52098**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **52098**	RunNo: **68462**							
Prep Date: **4/27/2020**	Analysis Date: **4/27/2020**	SeqNo: **2368954**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Qualifiers:

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

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: **2004B01** RcptNo: **1**

Received By: **Desiree Dominguez** **4/25/2020 9:20:00 AM** DD

Completed By: **Desiree Dominguez** **4/25/2020 9:44:29 AM** DD

Reviewed By: DAD 4/25/20

Chain of Custody

1. Is Chain of Custody sufficiently 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. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 4/25/20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Not Present			

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 4 day

☑ Standard ☐ Rush

Project Name: Tex Mack

Project #: 202604.007

Project Manager: Rebecca Pons

Sampler: B. Sinclair

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 3.6+0.3=3.9c

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 Name	Container Type and #	Preservative Type	HEAL No. 2004B01	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/20			S1A@5'			-001							X			
	9:20		S1A@6'			-002										
	9:21		S1A@7'			-003										
			S1A@8'			-004										
	9:45		S1A@9'			-005										
			S1A@10'			-006										
	10:22		S2-3A@5'			-007										
	10:27		S2-3A@6'			-008										
	10:30		S2-3A@7'			-009										
			S2-3A@8'			-010										
	12:00		S4A@5'			-011										
			S4A@6'			-012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/20	1230	Rebecca Pons	Chrissy Sosa		4/24	1240
4/24	1900	Chrissy Sosa	DB	Courier	4/25/20	9:20

Remarks: Please cc the following via email:

Dadkins@talonlpe.com

Rpons@talonlpe.com

BSinclair@talonlpe.com

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

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

4 days

☑ Standard ☐ Rush

Project Name:

Tex Mack

Project #:

202604-007

Project Manager:

Rebecca Pons

Sampler: B Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 3.6+0.3=3.9°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2004B01	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			~~S44@7'RP~~			-012 DAD 4/25/20										
4/20	11:08		S44@7'R			-013							X			

Analysis Request

Date: 4/20 Time: 1230 Relinquished by: Rebecca Pons

Received by: Via: Date Time 4/24 1240

Date: 4/24 Time: 1900 Relinquished by:

Received by: Via: Courier Date Time 4/25/20 9:20

Remarks: Please cc the following via email:
Dadkins@talonlpe.com
Rpons@talonlpe.com
cc/ BSinclair@talonlpe.com

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.