

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

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

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

Incident ID	NRM2022556970
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Spur Energy Partners	OGRID	328947
Contact Name	Kenny Kidd	Contact Telephone	575-616-5400
Contact email	kkidd@spurepllc.com	Incident # (assigned by OCD)	
Contact mailing address	2407 Pecos Drive Artesia, NM 88210		

### Location of Release Source

Latitude 32.668423061 Longitude -104.40089079  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Bradley 8 Fee 7H	Site Type	Production Facility
Date Release Discovered	July 21, 2020	API# (if applicable)	30-015-42886

Unit Letter	Section	Township	Range	County
O	08	19S	26E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.5 bbl	Volume Recovered (bbls) 9
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

This spill incident was as a result of a stuffing box leak. The fluid leached into the cellar box, with approximately .5 bbls of area that was sprayed. Some fluid traversed beyond the cellar.

State of New Mexico  
 Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Notices was provided to the NMOCD on July 22, 2020 by Kenny Kidd of Spur energy via email.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:  
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Rebecca Pons</u> Title: <u>Project Manager</u> Signature: _____ Date: <u>8/12/2020</u> email: <u>rpons@talonlpe.com</u> Telephone: <u>575-441-0980</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>8/12/2020</u>

Incident ID	NRM2022556970
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Facility ID	30-015-42886
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: Brandon Sinclair

Title: Environmental Project Manager

Signature: \_\_\_\_\_

Date: 12-16-2020

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

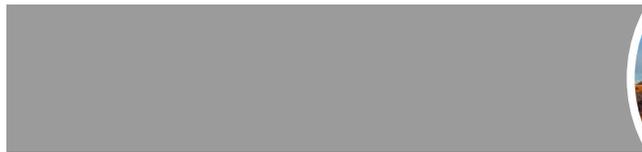
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_



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## Remediation and Closure Report

Bradley 8 Fee #007H  
Eddy County, New Mexico  
API # 30-015-42886, NRM2022556970

### 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

**December 16, 2020**

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Remediation and Closure Report**  
Bradley 8 Fee #007H  
Eddy County, New Mexico  
API # 30-015-42886, NRM2022556970

Dear Mr. Bratcher,

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 site assessment and remediation activities are presented herein.

### Site Information

Bradley 8 Fee #007H is located approximately twelve (12) miles south of Artesia, New Mexico. The legal location for this release is Unit Letter O, Section 08, Township 19 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.668423061 North and -104.40089079 West. A site map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Reagan-Upton fine sands, 0 to 9 percent slopes. See [Appendix II](#) for referenced soil data. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to lower Pleistocene in age and is comprised of piedmont alluvial deposits. Drainage courses in this area are typically dry.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 132-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth.

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 132 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 a 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 freshwater well or spring
- Yes  No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes  No Within 300 feet of a wetland
- Yes  No Within the area overlying a subsurface mine
- Yes  No Within an unstable area
- Yes  No Within a 100-year floodplain

Due to the presence of a freshwater well within 1,000-feet of this location, the closure criteria for this incident are as follows:

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

## Incident Description

On July 21, 2020, a stuffing box leak was discovered leaching fluid into the cellar and its adjoining area. Approximately 9.5 barrels (bbls) of produced water were released, 0.5 bbls of which were recovered. The initial C-141 detailing this incident can be found in [Appendix III](#).

## Site Assessment

On July 28, 2020, Talon mobilized personnel to perform a site assessment and collect soil samples. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Field titration analysis was performed on these samples to determine excavation depths. Following excavation activities, confirmation samples were collected in order to verify that NMOCD cleanup criteria had been met. Results from these sampling events are presented in the following data table. A complete laboratory report can be found in [Appendix V](#). Sample locations are illustrated on the attached site map in [Appendix I](#).

**Table 1 : Soil Sample Analysis**

Sample ID	Depth (ft.)	Date	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
SW-1	2	9/2/2020	ND	ND	ND	ND	ND	-	380
SW-2	2	9/2/2020	ND	ND	ND	ND	ND	-	410
SW-3	2	9/2/2020	ND	ND	ND	ND	ND	-	370
SW-4	2	9/2/2020	ND	ND	ND	60	200	260.0	130
	2.5	9/14/2020	NT	NT	ND	ND	ND	-	NT
S-1	2	9/2/2020	ND	ND	ND	33	130	163.0	180
	2.5	9/14/2020	NT	NT	ND	ND	ND	-	NT
S-2	2	9/2/2020	ND	ND	ND	18	ND	18.0	ND
S-3	2	9/2/2020	ND	ND	ND	17	ND	17.0	ND
S-4	2	9/2/2020	ND	ND	ND	ND	73	73.0	470
BG-1	0-1	9/2/2020	ND	ND	ND	24	75	99.0	100
	0-1	9/14/2020	NT	NT	ND	ND	ND	-	NT
BG-2	0-1	9/2/2020	ND	ND	ND	ND	ND	-	470
BG-3	0-1	9/2/2020	ND	ND	ND	27	ND	27.0	ND
BG-4	0-1	9/2/2020	ND	ND	ND	27	77	104.0	110
	0-1	9/14/2020	NT	NT	ND	ND	ND	-	NT
Cellar	6	9/2/2020	ND	ND	ND	40	160	200.0	120
	7	9/14/2020	NT	NT	ND	ND	ND	-	NT

ND= Analyte Not Detected

NT= Analyte Not Tested

### Remedial Actions

- The impacted area in the vicinity of sample point S-1 was excavated to a depth of 2.5-feet BGS.
- The areas near sample points S-2 through S-4 were excavated to a depth of 2.0-feet.
- The contaminated soil within the cellar was removed utilizing a hydroexcavator to a depth of 7.0-feet.
- Confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed.
- All of the excavated material (approximately 72 yd<sup>3</sup>) was hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with new caliche, machine compacted and contoured to match the surrounding location.

## Closure

Based on this site characterization and analytical results, we request that no further actions be required, and that closure with regard to the attached 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

Brandon Sinclair  
Digitally signed by Brandon Sinclair  
DN: cn=Brandon Sinclair,  
o=Talon LPE,  
ou=Environmental,  
email=bsinclair@talonlpe.com, c=US  
Date: 2020.12.16 16:00:54 -07'00'

Brandon Sinclair  
Project Manager

David J. Adkins  
Digitally signed by David J. Adkins  
DN: cn=David J. Adkins, o=Talon LPE, ou=Regional Manager,  
email=dadkins@talonlpe.com, c=US  
Date: 2020.12.16 16:07:55 -07'00'

David J. Adkins  
Regional Manager

### Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey and Groundwater Data
- Appendix III Correspondence
- Appendix IV Photographic Documentation
- Appendix V Laboratory Results



# APPENDIX I

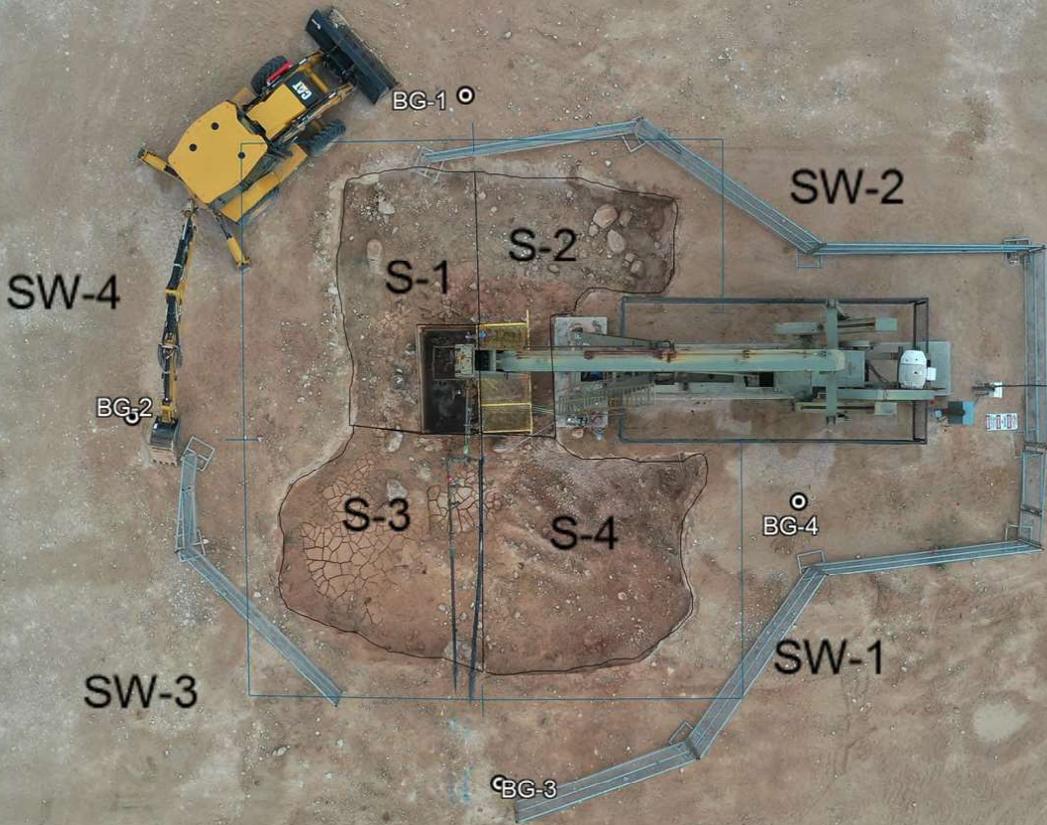
# SITE MAPS

### Bradley 8 Fee #007H

Spur Energy Partners LLC  
API# 30-015-42886  
Eddy County, NM  
Site Map

#### Legend

-  Soil Sample (Bottom Composite)
-  Soil Sample (Discrete)
-  Soil Sample (Sidewall Composite)



Google Earth

### Bradley 8 Fee #007H

Spur Energy Partners LLC  
API# 30-015-42886  
Eddy County, NM  
Karst Map

#### Legend

- High
- Low
- Medium

Bradley 8 Fee 7H

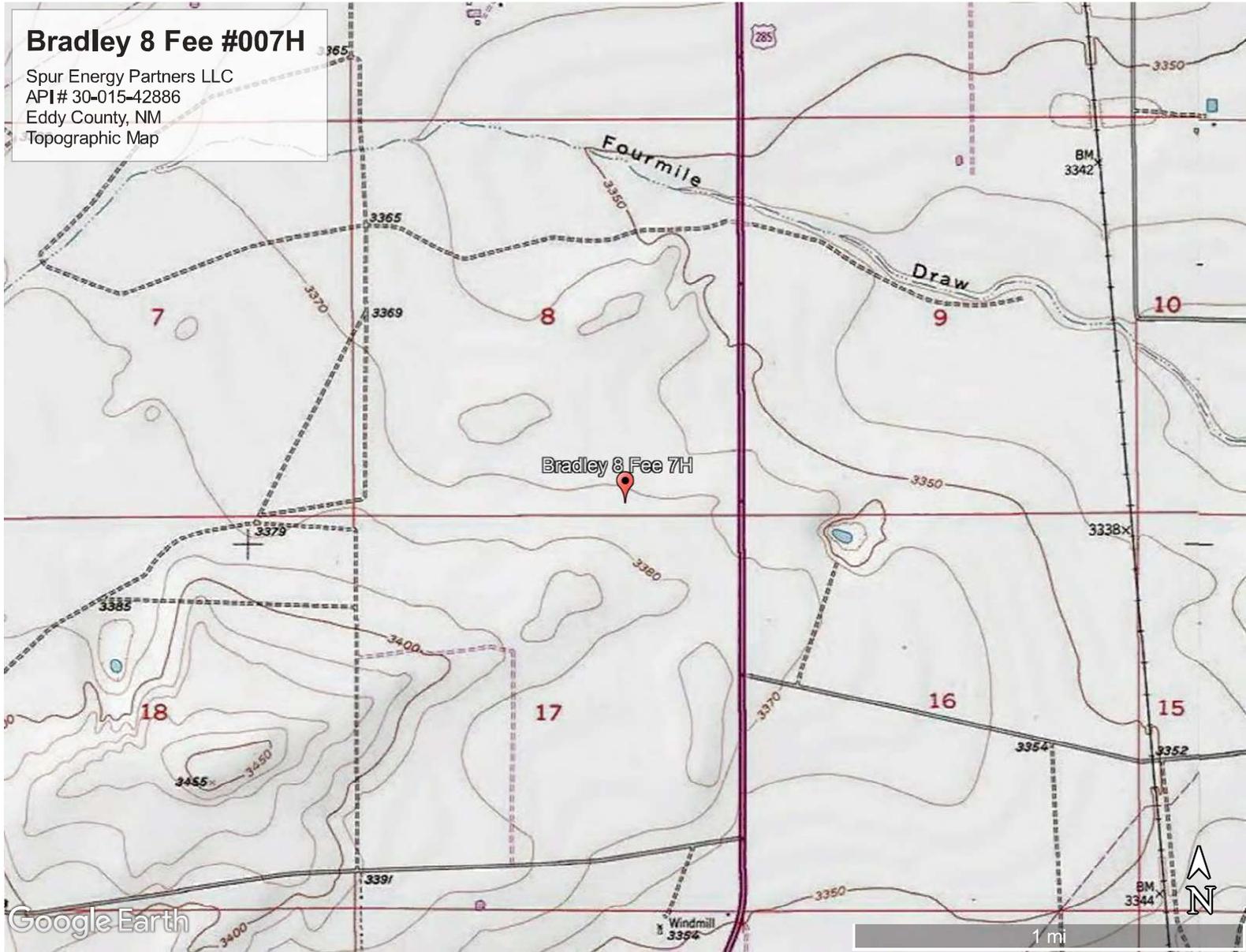
Google Earth



3 mi

### Bradley 8 Fee #007H

Spur Energy Partners LLC  
API# 30-015-42886  
Eddy County, NM  
Topographic Map







## **APPENDIX II**

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# **FEMA FLOOD MAP**



## 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	DepthWell	DepthWater	Water Column
<a href="#">RA 05037</a>		RA	ED	1	2	17	19S	26E		556091	3614436*	262	475	132	343
<a href="#">RA 11018 POD1</a>		RA	ED	3	4	2	17	19S	26E	556396	3613928*	770	260	100	160
<a href="#">RA 06813</a>		RA	CH	1	1	09	19S	26E		556883	3616056*	1540	171	97	74
<a href="#">RA 06588</a>		RA	ED	4	3	4	05	19S	26E	556173	3616360*	1686	200		
<a href="#">RA 09050</a>		RA	ED	1	1	2	20	19S	26E	556001	3612916*	1769	160	105	55
<a href="#">RA 07128</a>		RA	ED	1	2	2	20	19S	26E	556404	3612913*	1772	134	100	34
<a href="#">RA 01982</a>		RA	ED	2	2	2	20	19S	26E	556604	3612913*	1805	110	45	65
<a href="#">RA 08074</a>		RA	ED	2	2	2	20	19S	26E	556604	3612913*	1805	218		
<a href="#">RA 06129</a>		RA	ED	4	4	05	19S	26E		556477	3616462*	1809	125	190	-65
<a href="#">RA 01569 D</a>		RA	ED	2	2	2	20	19S	26E	556688	3612860	1876	218	90	128
<a href="#">RA 05916</a>		RA	ED	2	2	20	19S	26E		556505	3612814*	1884	102	25	77
<a href="#">RA 08567</a>		RA	ED	1	4	4	05	19S	26E	556376	3616561*	1895	264	80	184
<a href="#">RA 04272</a>		RA	ED	2	4	4	05	19S	26E	556576	3616561*	1923	102	58	44
<a href="#">RA 07124</a>		RA	CH	4	2	4	05	19S	26E	556571	3616765*	2123	133	94	39
<a href="#">RA 10262</a>		RA	ED	2	2	2	19	19S	26E	554994	3612917*	2132	200	85	115
<a href="#">RA 01230 #2</a>	O	RA	ED	3	1	3	04	19S	26E	556774	3616766*	2168			
<a href="#">RA 01230 REPAR</a>	O	RA	ED	3	1	3	04	19S	26E	556774	3616766*	2168	800		
<a href="#">RA 07954</a>		RA	ED	3	2	3	05	19S	26E	555566	3616763*	2184	290	175	115
<a href="#">RA 06986</a>		RA	ED	1	4	05	19S	26E		556070	3616865*	2195	195	165	30
<a href="#">RA 07172</a>		RA	ED	1	4	05	19S	26E		556070	3616865*	2195	210	95	115
<a href="#">RA 07239</a>		RA	ED	2	4	05	19S	26E		556472	3616866*	2208	191	100	91
<a href="#">RA 08557</a>		RA	ED	2	1	4	05	19S	26E	556169	3616964*	2290	232	100	132
<a href="#">RA 12627 POD1</a>		RA	ED	1	2	4	05	19S	26E	556415	3617007	2343	220	100	120
<a href="#">RA 01230 CLW</a>	O	RA	ED	1	1	3	04	19S	26E	556774	3616966*	2362	705		
<a href="#">RA 03168</a>		RA	ED	1	1	3	04	19S	26E	556774	3616966*	2362	150	70	80
<a href="#">RA 07817</a>		RA	ED	2	1	2	19	19S	26E	554592	3612915*	2384	224	145	79
<a href="#">RA 07817 CLW</a>		RA	ED	2	1	2	19	19S	26E	554592	3612915*	2384	275	130	145
<a href="#">RA 09077</a>		RA	ED	2	1	2	19	19S	26E	554592	3612915*	2384	200		
<a href="#">RA 01215</a>		RA	ED	4	3	3	10	19S	26E	558603	3614739*	2401	1192		
<a href="#">RA 01343</a>		RA	ED	2	1	1	18	19S	26E	553777	3614525*	2430	440	69	371
<a href="#">RA 07066 POD2</a>		RA	ED	4	4	1	05	19S	26E	555761	3617166*	2531	150		
<a href="#">RA 12324 POD1</a>		RA	ED	3	4	2	05	19S	26E	556339	3617207	2536	235	135	100
<a href="#">RA 07066</a>		RA	ED	3	4	1	05	19S	26E	555561	3617166*	2573	202	100	102

<a href="#">RA 07165</a>	RA	ED	3	2	05	19S	26E	556065	3617269*	2598	193	110	83	
<a href="#">RA 07508</a>	RA	ED	3	2	05	19S	26E	556065	3617289*	2598	185	150	35	
<a href="#">RA 10133</a>	RA	ED	3	2	05	19S	26E	556065	3617269*	2598	177	138	39	
<a href="#">RA 07053</a>	RA	ED	4	2	05	19S	26E	556468	3617271*	2610	135	90	45	
<a href="#">RA 07142</a>	RA	ED	4	2	05	19S	26E	556468	3617271*	2610	217	98	119	
<a href="#">RA 07448</a>	RA	ED	4	2	05	19S	26E	556468	3617271*	2610	207	105	102	
<a href="#">RA 09276</a>	RA	ED	4	2	05	19S	26E	556468	3617271*	2610	265	100	165	
<a href="#">RA 10318</a>	RA	ED	4	2	05	19S	26E	556468	3617271*	2610	240	100	140	
<a href="#">RA 06995</a>	RA	ED	1	4	04	19S	26E	557679	3616869*	2645	150	100	50	
<a href="#">RA 03564</a>	RA	ED	1	1	10	19S	26E	558491	3616060*	2675	200	70	130	
<a href="#">RA 12771 POD1</a>	RA	ED	1	1	4	04	19S	26E	557469	3617067	2707	250	150	100
<a href="#">RA 11036 POD1</a>	RA	ED	2	4	2	05	19S	26E	556567	3617370*	2720	210	110	100
<a href="#">RA 12238 POD1</a>	RA	ED	2	4	4	04	19S	26E	558180	3616638	2787	171	103	68
<a href="#">RA 01215 CLW</a>	RA	ED	2	1	1	10	19S	26E	558590	3616159*	2811	880	50	830
<a href="#">RA 01215 CLWPU</a>	RA	ED	2	1	1	10	19S	26E	558590	3616159*	2811	1000		
<a href="#">RA 03118</a>	RA	ED	2	1	1	10	19S	26E	558590	3616159*	2811	195		
<a href="#">RA 08612</a>	RA	ED	1	2	1	19	19S	26E	553989	3612912*	2829	221	80	141
<a href="#">RA 07324</a>	RA	ED	2	4	04	19S	26E	558080	3616870*	2889	150	105	45	
<a href="#">RA 08097</a>	RA	ED	3	2	2	05	19S	26E	556362	3617573*	2903	210	120	90
<a href="#">RA 08098</a>	RA	ED	3	1	2	05	19S	26E	555959	3617571*	2907	215	100	115
<a href="#">RA 08315</a>	RA	ED	3	1	2	05	19S	26E	555959	3617571*	2907	195	100	95
<a href="#">RA 09988</a>	RA	ED	2	4	1	19	19S	26E	554190	3612507*	2957	100	65	35
<a href="#">RA 09451</a>	RA	ED	1	3	4	20	19S	26E	556006	3611701*	2979	200		

Average Depth to Water: 102 feet  
 Minimum Depth: 25 feet  
 Maximum Depth: 190 feet

Record Count:56

UTMNA083 Radius Search (in meters):

Easting (X): 556202.57

Northing (Y): 3614673.77

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.

10/12/20 11:56 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d

*Elevation:* 1,100 to 5,400 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 180 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent

*Upton and similar soils:* 25 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reagan

##### Setting

*Landform:* Alluvial fans, fan remnants

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water capacity:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* B

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

---

*Ecological site:* R070DY153NM - Loamy  
*Hydric soil rating:* No

### Description of Upton

#### Setting

*Landform:* Fans, ridges  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 16, Jun 8, 2020

# National Flood Hazard Layer FIRMette



104°24'21"W 32°40'21"N



USGS The National Map: Orthorectified Imagery. Data refreshed April 2020

## Legend

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

### SPECIAL FLOOD HAZARD AREAS

	Without Base Flood Elevation (BFE) Zone A, V, AP3
	With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage 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

### OTHER AREAS OF FLOOD HAZARD

Area with Flood Risk due to Levee Zone D

Area of Minimal Flood Hazard Zone X

Effective LOMRs

### OTHER AREAS

Area of Undetermined Flood Hazard Zone X

### GENERAL STRUCTURES

Channel, Culvert, or Storm Sewer  
Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance  
17.5 Water Surface Elevation

Coastal Transsect  
Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transsect Baseline

Profile Baseline

Hydrographic Feature

### OTHER FEATURES

### MAP PANELS

	Digital Data Available
	No Digital Data Available
	Unmapped

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



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/12/2020 at 1:36 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 undemonstrated areas cannot be used for regulatory purposes.



# APPENDIX III

# C-141 FORMS

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	NRM2022556970
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Spur Energy Partners	OGRID	328947
Contact Name	Kenny Kidd	Contact Telephone	575-616-5400
Contact email	kkidd@spurepllc.com	Incident # (assigned by OCD)	
Contact mailing address	2407 Pecos Drive Artesia, NM 88210		

### Location of Release Source

Latitude 32.668423061 Longitude -104.40089079  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Bradley 8 Fee 7H	Site Type	Production Facility
Date Release Discovered	July 21, 2020	API# (if applicable)	30-015-42886

Unit Letter	Section	Township	Range	County
O	08	19S	26E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.5 bbl	Volume Recovered (bbls) 9
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

This spill incident was as a result of a stuffing box leak. The fluid leached into the cellar box, with approximately .5 bbls of area that was sprayed. Some fluid traversed beyond the cellar.

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2022556970
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Notices was provided to the NMOCD on July 22, 2020 by Kenny Kidd of Spur energy via email.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u>	Title: <u>Project Manager</u>
Signature: _____	Date: <u>8/12/2020</u>
email: <u>rpons@talonlpe.com</u>	Telephone: <u>575-441-0980</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>8/12/2020</u>

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2022556970
District RP	
Facility ID	30-015-42886
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: Brandon Sinclair            Title: Environmental Project Manager  
 Signature: \_\_\_\_\_      Date: 12-16-2020  
 email: bsinclair@talonlpe.com      Telephone: 575-746-8768

**OCD Only**

Received by: Chad Hensley      Date: 03/03/2021

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: 03/03/2021  
 Printed Name: Chad Hensley      Title: Environmental Specialist Advanced

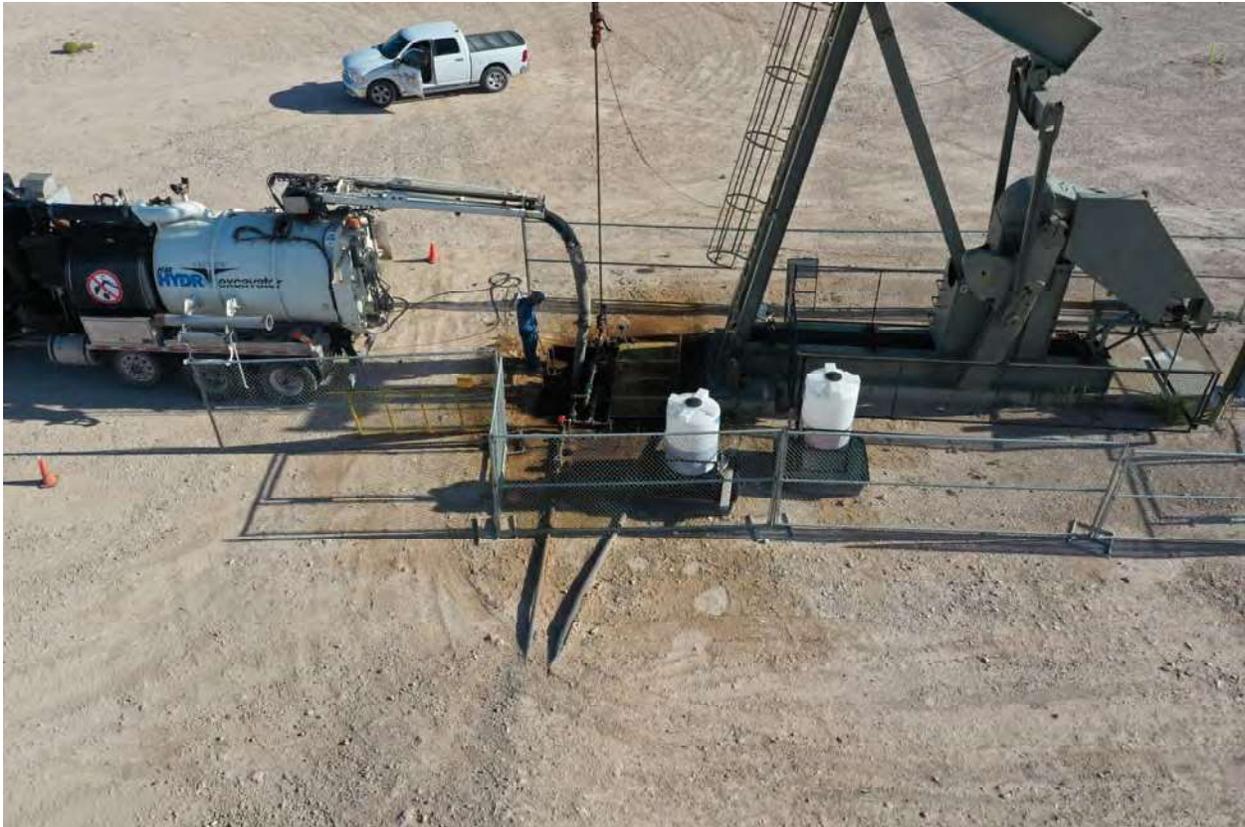


# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

# Bradley 8 Fee #007H Excavation Photographs

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# Bradley 8 Fee #007H Excavation Photographs

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# Bradley 8 Fee #007H Excavation Photographs

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## Bradley 8 Fee #007H Excavation Photographs

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## Bradley 8 Fee #007H Closure Photographs

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# APPENDIX V

# LABORATORY DATA



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 11, 2020

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

RE: Spur Bradley 8 Fee 007H Brandley 8

OrderNo.: 2009303

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/4/2020 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** SW-1 2'C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:10:00 AM

**Lab ID:** 2009303-001

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	60		mg/Kg	20	9/10/2020 10:52:03 PM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	9/9/2020 12:14:16 PM	54971
Motor Oil Range Organics (MRO)	60	43		mg/Kg	1	9/9/2020 12:14:16 PM	54971
Surr: DNOP	98.4	30.4-154		%Rec	1	9/9/2020 12:14:16 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2020 10:41:00 PM	54964
Surr: BFB	96.5	75.3-105		%Rec	1	9/8/2020 10:41:00 PM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2020 10:41:00 PM	54964
Toluene	ND	0.050		mg/Kg	1	9/8/2020 10:41:00 PM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/8/2020 10:41:00 PM	54964
Xylenes, Total	ND	0.10		mg/Kg	1	9/8/2020 10:41:00 PM	54964
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	9/8/2020 10:41:00 PM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** SW-2 2°C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:20:00 AM

**Lab ID:** 2009303-002

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	410	60		mg/Kg	20	9/10/2020 11:29:16 PM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/9/2020 12:37:52 PM	54971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 12:37:52 PM	54971
Surr: DNOP	103	30.4-154		%Rec	1	9/9/2020 12:37:52 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2020 11:04:36 PM	54964
Surr: BFB	94.1	75.3-105		%Rec	1	9/8/2020 11:04:36 PM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/8/2020 11:04:36 PM	54964
Toluene	ND	0.049		mg/Kg	1	9/8/2020 11:04:36 PM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2020 11:04:36 PM	54964
Xylenes, Total	ND	0.097		mg/Kg	1	9/8/2020 11:04:36 PM	54964
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	9/8/2020 11:04:36 PM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** SW-3 2°C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:25:00 AM

**Lab ID:** 2009303-003

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	370	61		mg/Kg	20	9/10/2020 11:41:41 PM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/9/2020 1:01:30 PM	54971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/9/2020 1:01:30 PM	54971
Surr: DNOP	96.5	30.4-154		%Rec	1	9/9/2020 1:01:30 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2020 11:28:13 PM	54964
Surr: BFB	93.1	75.3-105		%Rec	1	9/8/2020 11:28:13 PM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2020 11:28:13 PM	54964
Toluene	ND	0.049		mg/Kg	1	9/8/2020 11:28:13 PM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2020 11:28:13 PM	54964
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2020 11:28:13 PM	54964
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	9/8/2020 11:28:13 PM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** SW-4 2°C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:30:00 AM

**Lab ID:** 2009303-004

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	130	60		mg/Kg	20	9/10/2020 11:54:06 PM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	60	9.0		mg/Kg	1	9/10/2020 5:52:37 PM	54971
Motor Oil Range Organics (MRO)	200	45		mg/Kg	1	9/10/2020 5:52:37 PM	54971
Surr: DNOP	94.5	30.4-154		%Rec	1	9/10/2020 5:52:37 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2020 11:51:47 PM	54964
Surr: BFB	93.7	75.3-105		%Rec	1	9/8/2020 11:51:47 PM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2020 11:51:47 PM	54964
Toluene	ND	0.049		mg/Kg	1	9/8/2020 11:51:47 PM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2020 11:51:47 PM	54964
Xylenes, Total	ND	0.098		mg/Kg	1	9/8/2020 11:51:47 PM	54964
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	9/8/2020 11:51:47 PM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** S-1 2'C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:35:00 AM

**Lab ID:** 2009303-005

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	180	60		mg/Kg	20	9/11/2020 12:06:30 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	33	9.6		mg/Kg	1	9/9/2020 1:48:51 PM	54971
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	9/9/2020 1:48:51 PM	54971
Surr: DNOP	94.0	30.4-154		%Rec	1	9/9/2020 1:48:51 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 12:15:12 AM	54964
Surr: BFB	93.3	75.3-105		%Rec	1	9/9/2020 12:15:12 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 12:15:12 AM	54964
Toluene	ND	0.050		mg/Kg	1	9/9/2020 12:15:12 AM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2020 12:15:12 AM	54964
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2020 12:15:12 AM	54964
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	9/9/2020 12:15:12 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** S-2 2'C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:40:00 AM

**Lab ID:** 2009303-006

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	9/11/2020 12:18:54 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	18	9.7		mg/Kg	1	9/9/2020 2:12:16 PM	54971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/9/2020 2:12:16 PM	54971
Surr: DNOP	100	30.4-154		%Rec	1	9/9/2020 2:12:16 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 12:38:43 AM	54964
Surr: BFB	94.9	75.3-105		%Rec	1	9/9/2020 12:38:43 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 12:38:43 AM	54964
Toluene	ND	0.050		mg/Kg	1	9/9/2020 12:38:43 AM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2020 12:38:43 AM	54964
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2020 12:38:43 AM	54964
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	9/9/2020 12:38:43 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

## Analytical Report

Lab Order 2009303

Date Reported: 9/11/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 2'C

Project: Spur Bradley 8 Fee 007H Brandley 8

Collection Date: 9/2/2020 10:45:00 AM

Lab ID: 2009303-007

Matrix: SOIL

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/11/2020 12:31:18 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	17	8.8		mg/Kg	1	9/9/2020 2:35:34 PM	54971
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/9/2020 2:35:34 PM	54971
Surr: DNOP	106	30.4-154		%Rec	1	9/9/2020 2:35:34 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/9/2020 1:02:15 AM	54964
Surr: BFB	93.0	75.3-105		%Rec	1	9/9/2020 1:02:15 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/9/2020 1:02:15 AM	54964
Toluene	ND	0.048		mg/Kg	1	9/9/2020 1:02:15 AM	54964
Ethylbenzene	ND	0.048		mg/Kg	1	9/9/2020 1:02:15 AM	54964
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2020 1:02:15 AM	54964
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	9/9/2020 1:02:15 AM	54964

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** S-4 2'C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:50:00 AM

**Lab ID:** 2009303-008

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	470	60		mg/Kg	20	9/11/2020 12:43:43 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/9/2020 2:58:59 PM	54971
Motor Oil Range Organics (MRO)	73	50		mg/Kg	1	9/9/2020 2:58:59 PM	54971
Surr: DNOP	90.1	30.4-154		%Rec	1	9/9/2020 2:58:59 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2020 2:12:52 AM	54964
Surr: BFB	92.4	75.3-105		%Rec	1	9/9/2020 2:12:52 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/9/2020 2:12:52 AM	54964
Toluene	ND	0.049		mg/Kg	1	9/9/2020 2:12:52 AM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2020 2:12:52 AM	54964
Xylenes, Total	ND	0.098		mg/Kg	1	9/9/2020 2:12:52 AM	54964
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	9/9/2020 2:12:52 AM	54964

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-1 0-1'

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 10:55:00 AM

**Lab ID:** 2009303-009

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	100	60		mg/Kg	20	9/11/2020 12:56:07 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	24	8.7		mg/Kg	1	9/9/2020 3:22:34 PM	54971
Motor Oil Range Organics (MRO)	75	43		mg/Kg	1	9/9/2020 3:22:34 PM	54971
Surr: DNOP	84.5	30.4-154		%Rec	1	9/9/2020 3:22:34 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2020 2:36:26 AM	54964
Surr: BFB	94.2	75.3-105		%Rec	1	9/9/2020 2:36:26 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/9/2020 2:36:26 AM	54964
Toluene	ND	0.049		mg/Kg	1	9/9/2020 2:36:26 AM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2020 2:36:26 AM	54964
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2020 2:36:26 AM	54964
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	9/9/2020 2:36:26 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-2 0-1'

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 11:00:00 AM

**Lab ID:** 2009303-010

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	470	60		mg/Kg	20	9/11/2020 1:08:31 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/9/2020 3:46:10 PM	54971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 3:46:10 PM	54971
Surr: DNOP	104	30.4-154		%Rec	1	9/9/2020 3:46:10 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 2:59:58 AM	54964
Surr: BFB	93.7	75.3-105		%Rec	1	9/9/2020 2:59:58 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 2:59:58 AM	54964
Toluene	ND	0.050		mg/Kg	1	9/9/2020 2:59:58 AM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2020 2:59:58 AM	54964
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2020 2:59:58 AM	54964
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	9/9/2020 2:59:58 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-3 0-1'

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 11:05:00 AM

**Lab ID:** 2009303-011

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	9/11/2020 1:20:56 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	27	9.6		mg/Kg	1	9/9/2020 4:09:51 PM	54971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/9/2020 4:09:51 PM	54971
Surr: DNOP	105	30.4-154		%Rec	1	9/9/2020 4:09:51 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 3:23:24 AM	54964
Surr: BFB	95.2	75.3-105		%Rec	1	9/9/2020 3:23:24 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 3:23:24 AM	54964
Toluene	ND	0.050		mg/Kg	1	9/9/2020 3:23:24 AM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2020 3:23:24 AM	54964
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2020 3:23:24 AM	54964
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	9/9/2020 3:23:24 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009303**

Date Reported: **9/11/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-4 0-1'

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 11:10:00 AM

**Lab ID:** 2009303-012

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	110	60		mg/Kg	20	9/11/2020 1:58:09 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	27	9.5		mg/Kg	1	9/9/2020 4:33:32 PM	54971
Motor Oil Range Organics (MRO)	77	48		mg/Kg	1	9/9/2020 4:33:32 PM	54971
Surr: DNOP	92.1	30.4-154		%Rec	1	9/9/2020 4:33:32 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 3:46:53 AM	54964
Surr: BFB	93.3	75.3-105		%Rec	1	9/9/2020 3:46:53 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 3:46:53 AM	54964
Toluene	ND	0.050		mg/Kg	1	9/9/2020 3:46:53 AM	54964
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2020 3:46:53 AM	54964
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2020 3:46:53 AM	54964
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	9/9/2020 3:46:53 AM	54964

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order **2009303**

Date Reported: 9/11/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** Cellar C

**Project:** Spur Bradley 8 Fee 007H Brandley 8

**Collection Date:** 9/2/2020 11:15:00 AM

**Lab ID:** 2009303-013

**Matrix:** SOIL

**Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	120	60		mg/Kg	20	9/11/2020 2:10:33 AM	55089
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	40	9.7		mg/Kg	1	9/10/2020 6:40:48 PM	54971
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	9/10/2020 6:40:48 PM	54971
Surr: DNOP	94.0	30.4-154		%Rec	1	9/10/2020 6:40:48 PM	54971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2020 4:10:24 AM	54964
Surr: BFB	95.3	75.3-105		%Rec	1	9/9/2020 4:10:24 AM	54964
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2020 4:10:24 AM	54964
Toluene	ND	0.049		mg/Kg	1	9/9/2020 4:10:24 AM	54964
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2020 4:10:24 AM	54964
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2020 4:10:24 AM	54964
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	9/9/2020 4:10:24 AM	54964

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2009303

11-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Bradley 8 Fee 007H Brandley 8

Sample ID: <b>MB-55089</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55089</b>	RunNo: <b>71765</b>								
Prep Date: <b>9/10/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2510858</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-55089</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55089</b>	RunNo: <b>71765</b>								
Prep Date: <b>9/10/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2510859</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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#: 2009303

11-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Bradley 8 Fee 007H Brandley 8

Sample ID: <b>MB-54981</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54981</b>	RunNo: <b>71691</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2507305</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	30.4	154			

Sample ID: <b>LCS-54981</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54981</b>	RunNo: <b>71691</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2507306</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	30.4	154			

Sample ID: <b>MB-54971</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54971</b>	RunNo: <b>71691</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/9/2020</b>	SeqNo: <b>2508972</b>	Units: <b>mg/Kg</b>							
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		106	30.4	154			

Sample ID: <b>LCS-54971</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54971</b>	RunNo: <b>71691</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/9/2020</b>	SeqNo: <b>2508975</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130			
Surr: DNOP	4.9		5.000		98.9	30.4	154			

Sample ID: <b>LCS-55057</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55057</b>	RunNo: <b>71721</b>								
Prep Date: <b>9/9/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2509065</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.2	30.4	154			

Sample ID: <b>MB-55057</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55057</b>	RunNo: <b>71721</b>								
Prep Date: <b>9/9/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2509066</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	30.4	154			

**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 Quantitative 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#: 2009303

11-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Bradley 8 Fee 007H Brandley 8

Sample ID: <b>mb-54964</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54964</b>	RunNo: <b>71681</b>								
Prep Date: <b>9/4/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2506602</b>	Units: <b>mg/Kg</b>							
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	75.3	105			

Sample ID: <b>ics-54964</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54964</b>	RunNo: <b>71681</b>								
Prep Date: <b>9/4/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2506603</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.1	72.5	106			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: <b>mb-54978</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54978</b>	RunNo: <b>71708</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2508136</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.0	75.3	105			

Sample ID: <b>ics-54978</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54978</b>	RunNo: <b>71708</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/9/2020</b>	SeqNo: <b>2508137</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	75.3	105			

**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 Quantitative 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#: 2009303

11-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Bradley 8 Fee 007H Brandley 8

Sample ID: <b>mb-54964</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54964</b>	RunNo: <b>71681</b>								
Prep Date: <b>9/4/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2506653</b>	Units: <b>mg/Kg</b>							
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		97.8	80	120			

Sample ID: <b>LCS-54964</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54964</b>	RunNo: <b>71681</b>								
Prep Date: <b>9/4/2020</b>	Analysis Date: <b>9/8/2020</b>	SeqNo: <b>2506654</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.90	0.050	1.000	0	89.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			

Sample ID: <b>mb-54978</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>54978</b>	RunNo: <b>71708</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/10/2020</b>	SeqNo: <b>2508182</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Sample ID: <b>LCS-54978</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>54978</b>	RunNo: <b>71708</b>								
Prep Date: <b>9/5/2020</b>	Analysis Date: <b>9/9/2020</b>	SeqNo: <b>2508183</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Talon Artesia      Work Order Number: 2009303      RcptNo: 1

Received By: **Cheyenne Cason**      9/4/2020 8:00:00 AM  
 Completed By: **Juan Rojas**      9/4/2020 8:30:21 AM      *Juan Rojas*  
 Reviewed By: *LB*      9/4/20

### 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. 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?      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: *EM 9/4/20*

### Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good				
2	4.8	Good				

### Chain-of-Custody Record

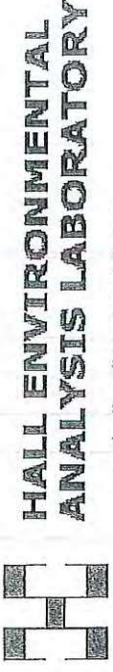
Client: Talon LPE  
 408 W Texas St  
 Mailing Address: Artesia, NM 88210  
 Phone #:  
 email or Fax#: (575) 746-8905  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time: 4-Day  
 Standard  Rush  
 Project Name: SUR Bradley 8 Fee #007H  
 Project #: 702604.036.01  
 Project Manager: Brandon Sinclair

Sampler: Roy Bell  
 Yes  No  
 # of Coolers: 2  
 Cooler Temp (including CO<sub>2</sub>): See Remark

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/2/20	10:10	soil	SW-1 2'C	Jar	ICE/cool	7009303
	10:20		SW-2 2'C			-001
	10:25		SW-3 2'C			-002
	10:30		SW-4 2'C			-003
	10:35		S-1 2'C			-004
	10:40		S-2 2'C			-005
	10:45		S-3 2'C			-006
	10:50		S-4 2'C			-007
	10:55		BG-1 0-1'			-008
	11:00		BG-2 0-1'			-009
	11:05		BG-3 0-1'			-010
	11:10		BG-4 0-1'			-011
						-012

Relinquished by: Roy Bell Date: 9/3/20 Time: 0900  
 Relinquished by: [Signature] Date: 9/3/20 Time: 1900  
 Received by: [Signature] Date: 9/3/20 Time: 0900  
 Received by: [Signature] Date: 9/4/20 Time: 0800



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

**Analysis Request**

Analysis Request	Analysis Request
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	✓
☑ F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	✓
8260 (VOA)	✓
8270 (Semi-VOA)	✓
Total Coliform (Present/Absent)	✓

Remarks: Please cc the following via email:  
 Dadkins@talonpe.com  
 Rpons@talonpe.com  
 3-4-0.2 = 3.2  
 4.0-0.2 = 4.8

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 22, 2020

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

RE: Spur Energy Bradley 8 Fee 7H

OrderNo.: 2009850

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/16/2020 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](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2009850**

Date Reported: 9/22/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** SW-4 2.5' Comp

**Project:** Spur Energy Bradley 8 Fee 7H

**Collection Date:** 9/14/2020 9:00:00 AM

**Lab ID:** 2009850-001

**Matrix:** SOIL

**Received Date:** 9/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2020 8:11:30 PM	55216
Surr: BFB	99.2	70-130		%Rec	1	9/18/2020 8:11:30 PM	55216
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/18/2020 9:48:28 PM	55218
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/18/2020 9:48:28 PM	55218
Surr: DNOP	127	30.4-154		%Rec	1	9/18/2020 9:48:28 PM	55218

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009850**

Date Reported: 9/22/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** S-1 2.5' Comp

**Project:** Spur Energy Bradley 8 Fee 7H

**Collection Date:** 9/14/2020 9:10:00 AM

**Lab ID:** 2009850-002

**Matrix:** SOIL

**Received Date:** 9/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/17/2020 10:51:08 PM	55216
Surr: BFB	99.8	70-130		%Rec	1	9/17/2020 10:51:08 PM	55216
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/17/2020 11:17:43 PM	55218
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/17/2020 11:17:43 PM	55218
Surr: DNOP	99.5	30.4-154		%Rec	1	9/17/2020 11:17:43 PM	55218

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009850**

Date Reported: 9/22/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-1 0-1'

**Project:** Spur Energy Bradley 8 Fee 7H

**Collection Date:** 9/14/2020 9:20:00 AM

**Lab ID:** 2009850-003

**Matrix:** SOIL

**Received Date:** 9/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/17/2020 11:20:20 PM	55216
Surr: BFB	102	70-130		%Rec	1	9/17/2020 11:20:20 PM	55216
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/17/2020 11:41:57 PM	55218
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/17/2020 11:41:57 PM	55218
Surr: DNOP	107	30.4-154		%Rec	1	9/17/2020 11:41:57 PM	55218

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009850**

Date Reported: 9/22/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** BG-4 0-1'

**Project:** Spur Energy Bradley 8 Fee 7H

**Collection Date:** 9/14/2020 9:30:00 AM

**Lab ID:** 2009850-004

**Matrix:** SOIL

**Received Date:** 9/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/17/2020 11:49:43 PM	55216
Surr: BFB	101	70-130		%Rec	1	9/17/2020 11:49:43 PM	55216
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/17/2020 7:34:08 PM	55222
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/17/2020 7:34:08 PM	55222
Surr: DNOP	108	30.4-154		%Rec	1	9/17/2020 7:34:08 PM	55222

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

**Analytical Report**

Lab Order **2009850**

Date Reported: **9/22/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Talon Artesia

**Client Sample ID:** Cellar Comp

**Project:** Spur Energy Bradley 8 Fee 7H

**Collection Date:** 9/14/2020 9:40:00 AM

**Lab ID:** 2009850-005

**Matrix:** SOIL

**Received Date:** 9/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/18/2020 12:19:30 AM	55216
Surr: BFB	102	70-130		%Rec	1	9/18/2020 12:19:30 AM	55216
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/17/2020 8:04:19 PM	55222
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/17/2020 8:04:19 PM	55222
Surr: DNOP	113	30.4-154		%Rec	1	9/17/2020 8:04:19 PM	55222

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

<b>Qualifiers:</b>	* 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2009850

22-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Energy Bradley 8 Fee 7H

Sample ID: <b>MB-55218</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55218</b>	RunNo: <b>71918</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2517723</b>	Units: <b>mg/Kg</b>							
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	12		10.00		118	30.4	154			

Sample ID: <b>LCS-55218</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55218</b>	RunNo: <b>71918</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2517726</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	113	70	130			
Surr: DNOP	5.9		5.000		117	30.4	154			

Sample ID: <b>2009850-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BG-4 0-1'</b>	Batch ID: <b>55222</b>	RunNo: <b>71946</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2518060</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.54	2.860	85.2	47.4	136			
Surr: DNOP	4.5		4.854		92.3	30.4	154			

Sample ID: <b>2009850-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BG-4 0-1'</b>	Batch ID: <b>55222</b>	RunNo: <b>71946</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2518061</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.89	2.860	93.5	47.4	136	7.49	43.4	
Surr: DNOP	5.0		4.789		104	30.4	154	0	0	

Sample ID: <b>LCS-55222</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55222</b>	RunNo: <b>71946</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2518083</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP	6.3		5.000		126	30.4	154			

**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 Quantitative 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#: 2009850

22-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Energy Bradley 8 Fee 7H

Sample ID: <b>MB-55222</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55222</b>	RunNo: <b>71946</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2518086</b>	Units: <b>mg/Kg</b>							
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	14		10.00		141	30.4	154			

**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 Quantitative 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#: 2009850

22-Sep-20

**Client:** Talon Artesia  
**Project:** Spur Energy Bradley 8 Fee 7H

Sample ID: <b>ics-55216</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55216</b>	RunNo: <b>71961</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2519260</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.0	70	130			
Surr: BFB	500		500.0		99.4	70	130			

Sample ID: <b>mb-55216</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55216</b>	RunNo: <b>71961</b>								
Prep Date: <b>9/16/2020</b>	Analysis Date: <b>9/17/2020</b>	SeqNo: <b>2519261</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		102	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 Quantitative 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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon Artesia Work Order Number: 2009850 RcptNo: 1

Received By: Cheyenne Cason 9/16/2020 8:00:00 AM

Completed By: Juan Rojas 9/16/2020 9:27:11 AM

Reviewed By: JR 9/16/20

Juan Rojas signature

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: [signature] 9/16/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

# Chain-of-Custody Record

Client: Talen/LPE

Mailing Address: on file

Phone #: \_\_\_\_\_

email or Fax#: \_\_\_\_\_

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

Accreditation:  Az Compliance  NELAC  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time: 4-day

Standard  Rush

Project Name: Spr Energy

Project #: Bradley & Fee 7H

702604.036.01

Project Manager: Brandon Sinclair

Sampler: Brandon Sinclair

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including CF): See Run#

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9-14-20	09:00	soil	SW-4 2.5 Comp	4 oz jar	ice	7009850
	09:10		S-1 2.5 Comp			-001
	09:20		BG-1 0-1'			-002
	09:30		BG-4 0-1'			-003
	09:40		cellar Comp			-004
						-005

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

Analysis Request	BTEX / MTBE / TMBs (8021)	TPH8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Received by: [Signature] Date: 9/15/20 Time: 1130

Relinquished by: [Signature]

Received by: [Signature] Date: 9/16/20 Time: 0800

Relinquished by: [Signature]

Remarks: 2.8 ± 0 = 2.8  
4.2 ± 0 = 4.2  
4/15/20

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.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 12463

**CONDITIONS OF APPROVAL**

Operator: TALON LPE      408 W Texas      Artesia, NM88210			OGRID: 329944	Action Number: 12463	Action Type: C-141
OCD Reviewer	Condition				
chensley	Closure application has been approved, no further action required by OCD at this time.				