

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	NRM2013960463
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input 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

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2013960463
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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input 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)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input 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: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>5/22/2020</u>

NRM2013960463

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
<i>Contaminated Soil measurement</i>		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>20</u>	<u>25.000</u>	<u>0.010</u>
Cubic Feet of Soil Impacted		<u>5.000</u>
Barrels of Soil Impacted		<u>0.89</u>
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		<u>0.13</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>0.13</u>
<i>Free Standing Fluid Only</i>		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>20</u>	<u>25.000</u>	<u>0.010</u>
Standing fluid		<u>0.889</u>
Total fluids spilled		<u>1.023</u>

NRM2013960463

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>70</u>	<u>20.000</u>	<u>0.021</u>
Cubic Feet of Soil Impacted		<u>29.400</u>
Barrels of Soil Impacted		<u>5.24</u>
Soil Type		<u>Clay/Sand</u>
Barrels of Oil Assuming 100% Saturation		<u>0.79</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>0.79</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>70</u>	<u>20.000</u>	<u>0.021</u>
Standing fluid		<u>5.229</u>
Total fluids spilled		<u>6.015</u>

State of New Mexico
Oil Conservation Division

Incident ID	NRM2013960463
District RP	
Facility ID	30-015-43136
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

Burton Flat Deep Unit #061H
Eddy County, New Mexico
API # 30-015-43136, NRM2013960463

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, New Mexico 88210

Prepared By:

TALON/LPE
408 West Texas Avenue
Artesia, New Mexico 88210

December 16, 2020

talonlpe.com • Toll Free: (866) 742-0742

Mr. Jim Amos
Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

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

Subject: **Remediation and Closure Report**
Burton Flat Deep Unit #061H
Eddy County, New Mexico
API# 30-015-43136, NRM2013960463

Dear Mr. Bratcher,

Devon Energy Production Company (Devon) 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

Burton Flat Deep Unit #061H is located approximately seven (7) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter L, Section 02, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.507653 North and -104.168614 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded. 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 middle Pleistocene in age and is comprised of eolian deposits of sandy and clay loam underlain by gypsiferous material. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 14-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Site Characterization

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

Approximate Depth to Groundwater	14 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain

Given the shallow depth to groundwater, and the fact that this release occurred within a critical karst region, the closure criteria is as follows:

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

Incident Description

On May 1, 2020, 7 barrels (bbls) of produced water leaked from a 1-inch nipple onto the pad area near the wellhead. The release remained entirely on location. The initial C-141 is attached in [Appendix III](#). A site map illustrating the affected area is presented in [Appendix I](#).

Site Assessment

On July 9, 2020, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Excavation depths and subsequent confirmation sample locations were selected based on this data. Results from our sampling events are presented in the following data table. Complete laboratory reports can be found in [Appendix V](#).

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
S-1	0-1	7/9/2020	ND	ND	ND	ND	ND	-	240
S-2	0-1	7/9/2020	ND	ND	ND	20	ND	20.0	1400
S-3	0-1	7/9/2020	ND	ND	ND	ND	ND	-	18000
S-3 BC	3	8/12/2020	ND	ND	ND	ND	ND	-	97
S-3 W SW	3	8/12/2020	ND	ND	ND	ND	ND	-	66
S-4	0-1	7/9/2020	ND	ND	ND	63	96	159.0	860
S-4 BC	2.5	8/12/2020	ND	ND	ND	ND	ND	-	190
S-4 S SW	2.5	8/12/2020	ND	ND	ND	ND	ND	-	ND
S-4 W SW	3.5	8/12/2020	ND	ND	ND	ND	ND	-	ND
S-5	0-1	7/9/2020	ND	ND	ND	640	510	1150.0	15000
	2	7/9/2020	ND	ND	ND	10	ND	10.0	260
	3	7/9/2020	ND	ND	ND	ND	ND	-	120
	4	7/9/2020	ND	ND	ND	ND	ND	-	120
S-5 BC W	3.5	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-5 BC E	3.5	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-5 E SW	3.5	8/17/2020	ND	ND	ND	ND	ND	-	80

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
S-6	0-1	7/9/2020	122.8	ND	810	32000	18000	50810.0	9900
	2	7/9/2020	ND	ND	ND	28	ND	28.0	780
	3	7/9/2020	ND	ND	ND	420	350	770.0	1800
	4	7/9/2020	ND	ND	ND	41	ND	41.0	1100
S-6 BC S	4.5	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-6 BC N	4.5	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-7	0-1	7/9/2020	ND	ND	ND	6500	5100	11600.0	28000
	2	7/9/2020	ND	ND	ND	1100	650	1750.0	4800
	3	7/9/2020	ND	ND	ND	19	ND	19.0	110
	4	7/9/2020	ND	ND	ND	ND	ND	-	140
S-7 BC S	4	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-7 BC N	4	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-7 E SW	4	8/12/2020	ND	ND	ND	ND	ND	-	91
S-7 W SW	4	8/17/2020	ND	ND	ND	ND	ND	-	ND
S-8	0-1R	7/9/2020	10.1	ND	110	13000	5800	18910.0	1900
S-8 BC	3	8/12/2020	ND	ND	ND	ND	ND	-	72
S-8 N SW	3	8/12/2020	ND	ND	ND	ND	ND	-	ND
BG-1	0-1	8/12/2020	ND	ND	ND	ND	ND	-	ND
BG-2	0-1	8/12/2020	ND	ND	ND	ND	ND	-	85
BG-3	0-1	8/12/2020	ND	ND	ND	ND	ND	-	75
BG-4	0-1	8/12/2020	ND	ND	ND	ND	ND	-	ND

ND= Analyte Not Detected

R= Refusal with hand auger

BC= Bottom Confirmation

SW= Side Wall Confirmation Sample

Remedial Actions

- The impacted area in the vicinity of sample points S-2 and S-7 was excavated to a total depth of 4.0-feet BGS.
- The areas near sample points S-3 and S-8 were excavated to 3.0-feet BGS.
- The impacted soil in the vicinity of sample location S-6 was removed to a depth of 4.5-feet BGS.
- The impacted area surrounding sample point S-5 was removed to a depth of 3.5-feet, and in the vicinity of S-4 the excavation was completed at 2.5-feet deep.
- Confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above NMOCD closure criteria had been removed.
- A confirmation sample location map is provided in [Appendix I](#) and photographic documentation of remediation activities is also appended ([Appendix IV](#)).
- All the excavated material 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.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

Closure

Based on the results of our site assessment, remedial actions and confirmation sampling results, we respectfully request that no further actions be required and that closure of this incident be granted.

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

Respectfully submitted,

TALON/LPE

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 14:19:13 -0700

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=dj@talonlpe.com, c=US
Date: 2020.12.16 14:17:07 -0700

David J. Adkins
Regional Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey & Groundwater Data
- Appendix III C-141 Forms
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data



APPENDIX I

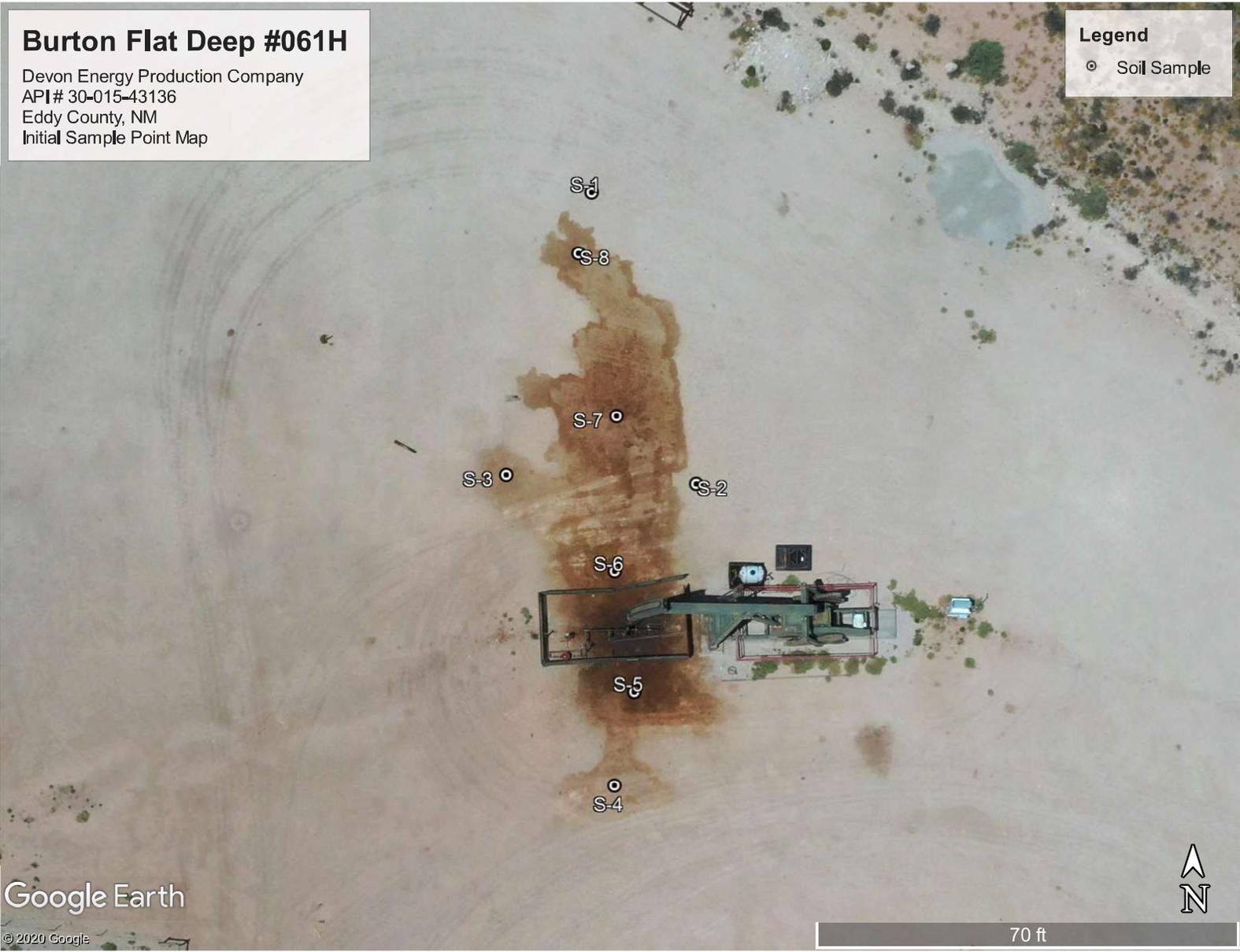
SITE MAPS

Burton Flat Deep #061H

Devon Energy Production Company
API # 30-015-43136
Eddy County, NM
Initial Sample Point Map

Legend

○ Soil Sample

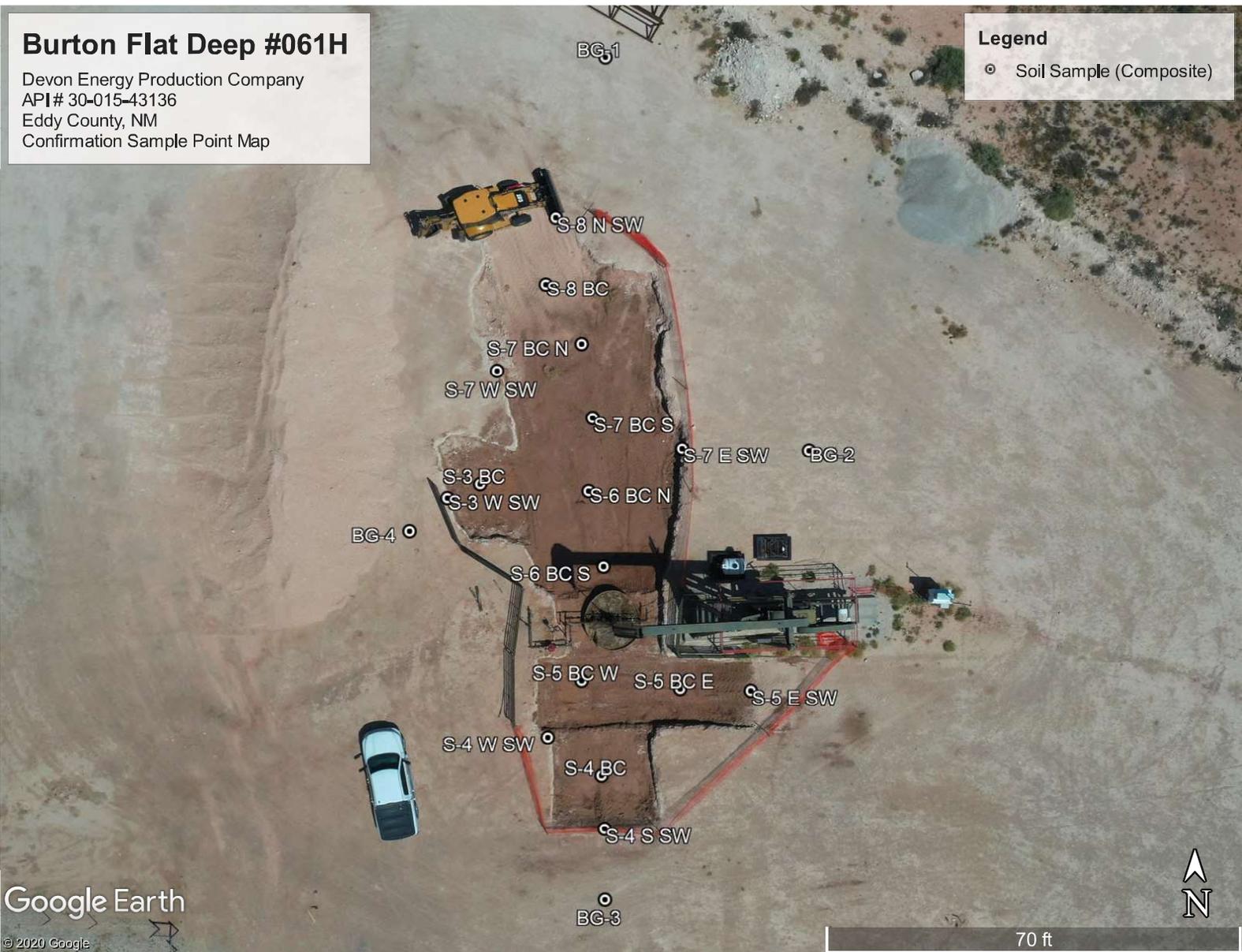


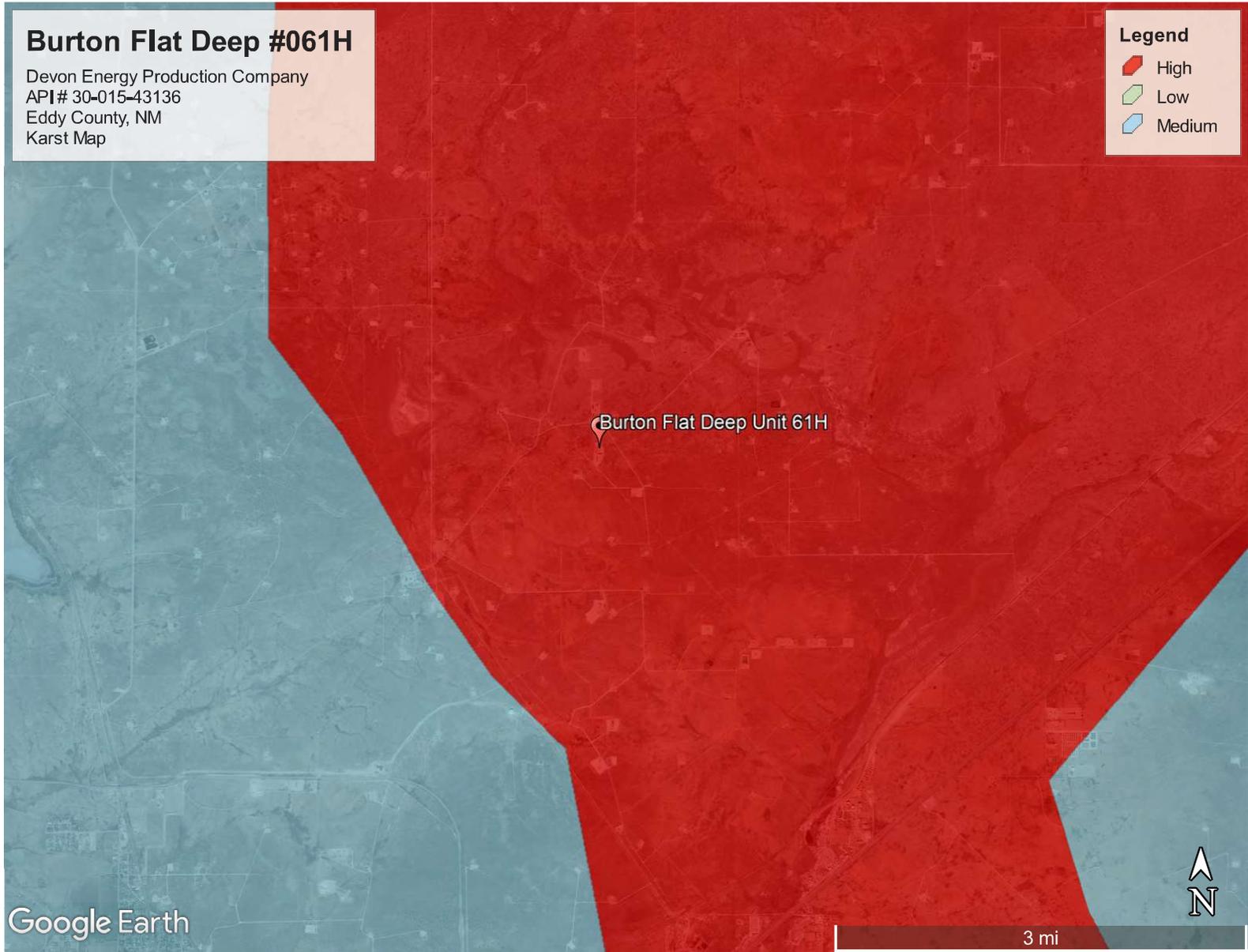
Burton Flat Deep #061H

Devon Energy Production Company
API# 30-015-43136
Eddy County, NM
Confirmation Sample Point Map

Legend

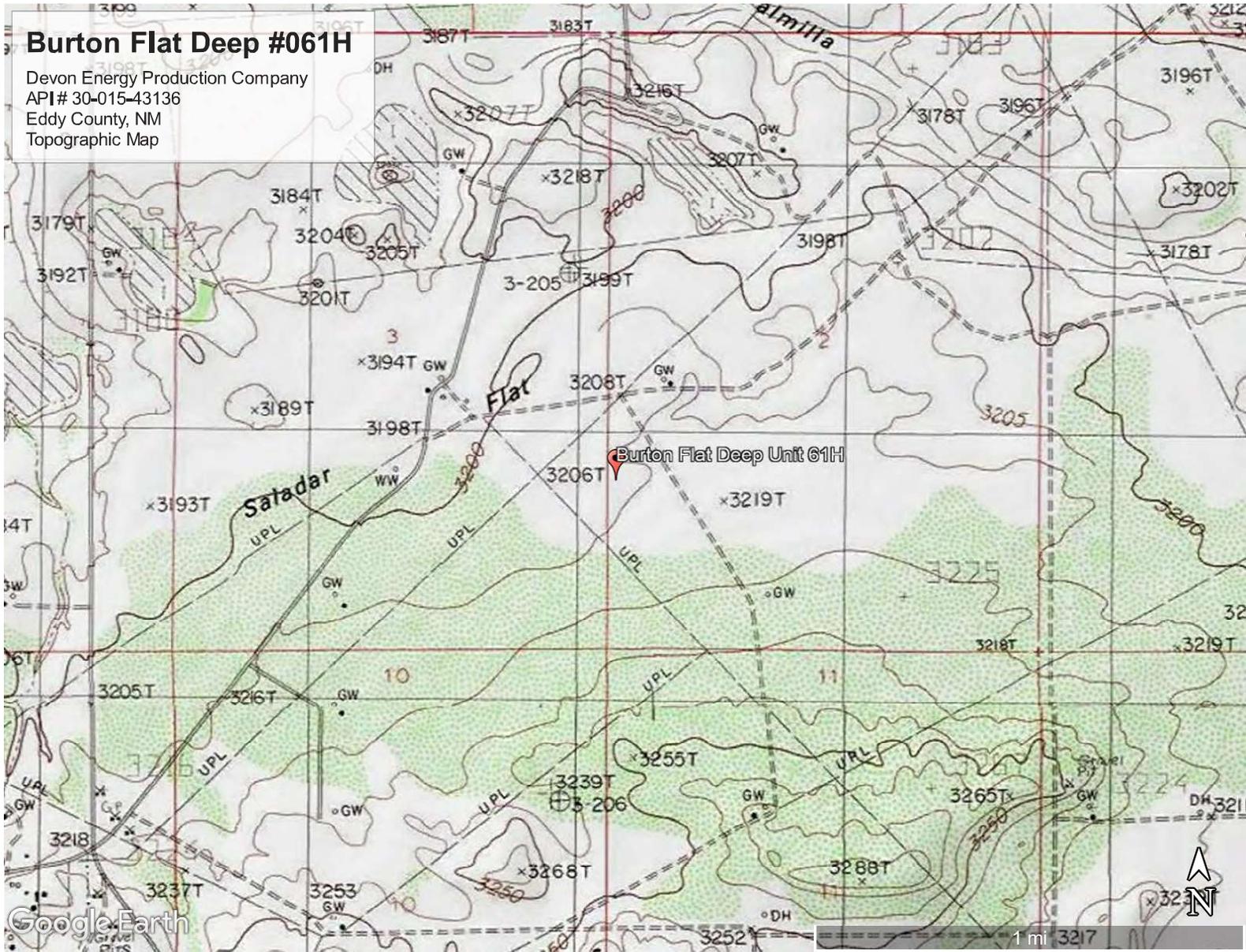
⊙ Soil Sample (Composite)

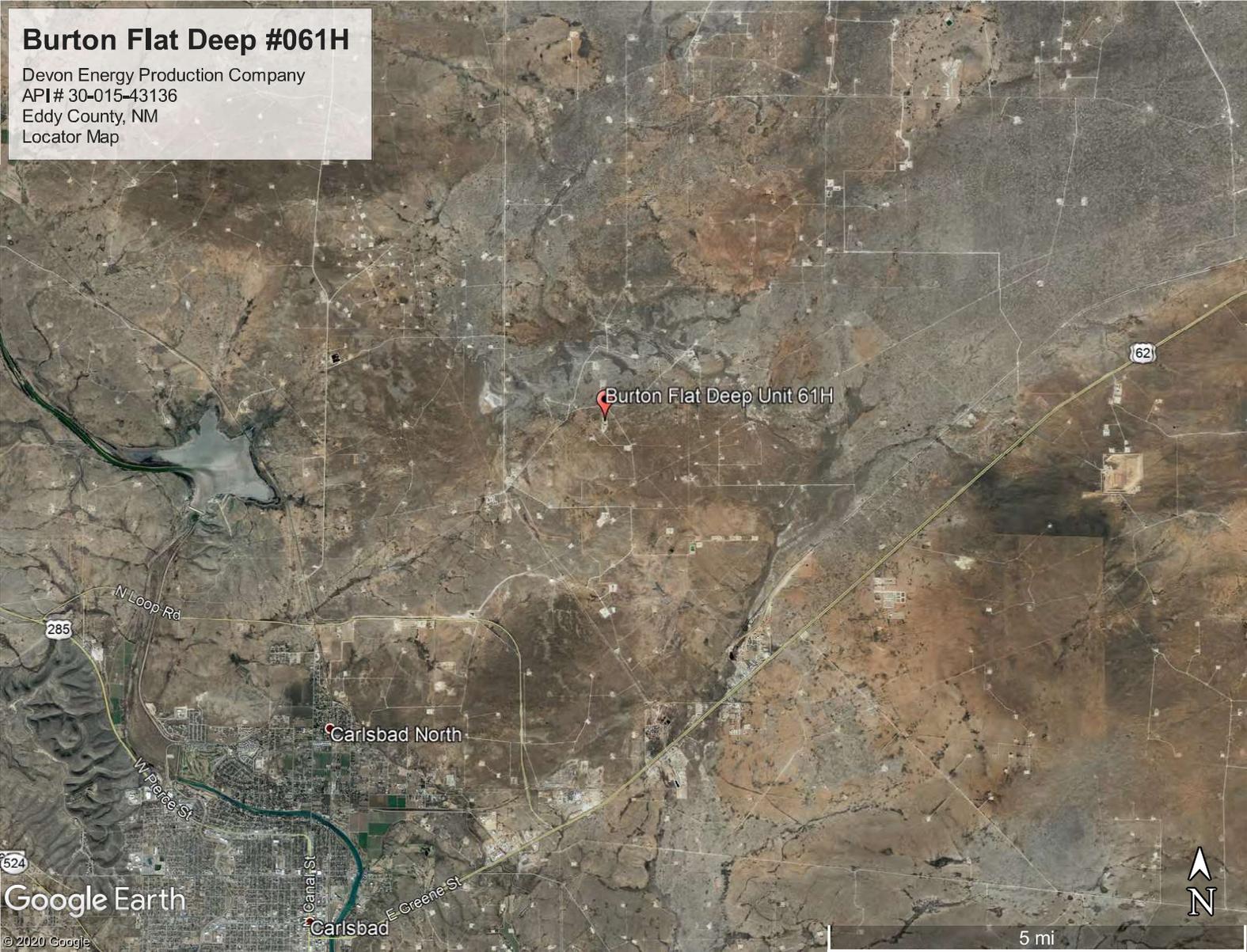




Burton Flat Deep #061H

Devon Energy Production Company
API# 30-015-43136
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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01142	C	ED		3	1	4	03	21S	27E	577358	3596873*	749	100		
C 00469	C	CUB	ED		1	4	02	21S	27E	579078	3596994*	983	767		
C 02907	C	ED		3	2	1	03	21S	27E	576959	3597669*	1311	52	14	38
C 03690 POD1	C	ED		4	1	4	10	21S	27E	577482	3595179	1931	200		
C 03525 POD2	CUB	ED		2	2	2	02	21S	27E	579676	3598362	2079	29	20	9
C 03525 POD1	CUB	ED		1	1	1	01	21S	27E	579702	3598362	2099	31	20	11
C 03525 POD3	CUB	ED		1	1	1	01	21S	27E	579728	3598332	2100	30		
C 03525 POD4	CUB	ED		1	1	1	01	21S	27E	579728	3598362	2119	29		
C 02992	C	ED		3	3	2	01	21S	27E	580594	3597311*	2517	250	186	64
C 00465	C	CUB	ED	3	2	1	14	21S	27E	578576	3594475*	2582			
C 03689 POD1	C	ED		1	1	2	01	21S	27E	580490	3598014	2596	95	10	85
CP 00922 POD1	CP	ED		2	3	3	33	20S	28E	576233	3598956*	2691	47	27	20
C 01339	CUB	ED			1	4	09	21S	27E	575842	3595353*	2797	425	120	305
C 03350	C	ED		1	4	2	01	21S	27E	580896	3597476	2840	76	8	68
CP 00919 POD2	CP	ED		2	1	3	33	20S	28E	576318	3599357	2942	104	40	64
C 00466	C	CUB	ED	3	3	1	14	21S	27E	578173	3594066*	2946	538		
CP 00671	CP	ED			1	3	33	20S	28E	576129	3599260*	2985	70	35	35
CP 00919 POD1	R	CP	ED	2	1	3	33	20S	28E	576228	3599359*	2998	24		

Average Depth to Water: **48 feet**
 Minimum Depth: **8 feet**
 Maximum Depth: **186 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 578094.28

Northing (Y): 3597011.92

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.

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

GR—Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w4h
Elevation: 3,000 to 5,000 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 55 percent
Reeves and similar soils: 35 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Plains, ridges, hills
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Description of Reeves

Setting

Landform: Plains, ridges, hills
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: sandy loam
H2 - 8 to 32 inches: clay loam

Map Unit Description: Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

Gypsum, maximum in profile: 80 percent

Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

Minor Components

Unnamed soils

Percent of map unit: 10 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



Legend

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

- | | | |
|------------------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
Zone A, V, AB9 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas 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 |
| | | Area with Flood Risk due to Levee Zone D |
| OTHER AREAS | | Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard Zone D |
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |
- 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 6/3/2020 at 5:36:54 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



APPENDIX III

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

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	NRM2013960463
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-578-6195
Contact email Wesley.Mathews@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.5076509 Longitude -104.1585985
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Burton Flat Deep Unit #61H	Site Type Oil
Date Release Discovered 5/1/2020	API# (if applicable) 30-015-43136

Unit Letter	Section	Township	Range	County
J	02	21S	27E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7 BBLS	Volume Recovered (bbls) 5 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input 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 1" nipple developed a crack causing fluid to release onto the pad around the wellhead.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2013960463
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input 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)?

Initial Response

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

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
Spill was not in containment.

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: Kendra DeHoyos Title: EHS Associate
 Signature: Kendra DeHoyos Date: 5/14/2020
 email: kendra.dehoyos@dvn.com Telephone: 575-748-3371

OCD Only
 Received by: Ramona Marcus Date: 5/22/2020

NRM2013960463

Soil Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
20	25.000	0.010
Cubic Feet of Soil Impacted		5.000
Barrels of Soil Impacted		0.89
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		0.13
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels. of Oil Released		0.13
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
20	25.000	0.010
Standing fluid		0.889
Total fluids spilled		1.023

NRM2013960463

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>70</u>	<u>20.000</u>	<u>0.021</u>
Cubic Feet of Soil Impacted		<u>29,400</u>
Barrels of Soil Impacted		<u>5.24</u>
Soil Type		<u>Clay/Sand</u>
Barrels of Oil Assuming 100% Saturation		<u>0.79</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>0.79</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>70</u>	<u>20.000</u>	<u>0.021</u>
Standing fluid		<u>5.229</u>
Total fluids spilled		<u>6.015</u>

Incident ID	NRM2013960463
District RP	
Facility ID	30-015-43136
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 **Brandon Sinclair** Digitally signed by Brandon Sinclair
DN: cn=Brandon Sinclair, o=Talon LPE, ou=Environmental, email=bsinclair@talonlpe.com, c=US
 Signature: _____ Date: 2020.12.16 14:19:50 -0700 Title: Environmental Project Manager
 email: bsinclair@talonlpe.com Telephone: 575-746-8768

OCD Only

Received by: Chad Hensley Date: 03/02/2021

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: Chad Hensley Date: 03/02/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced



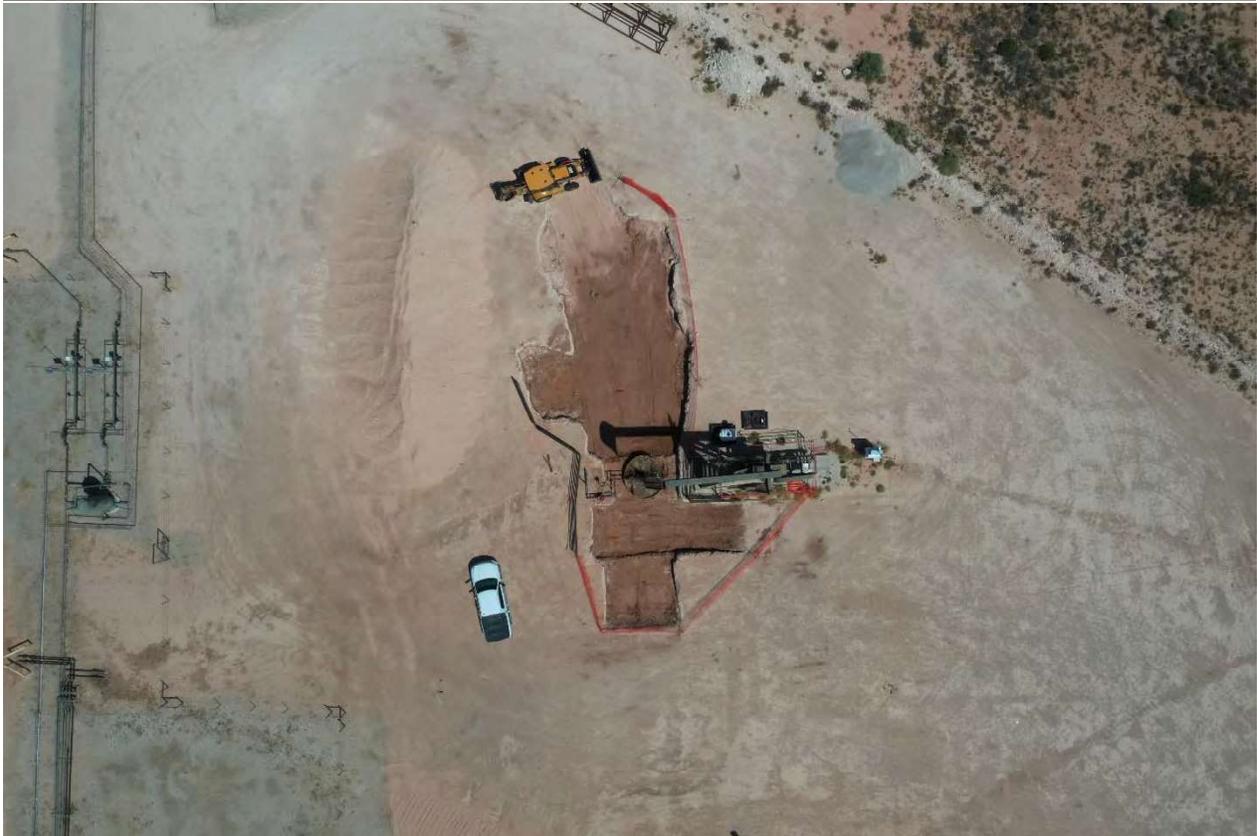
APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

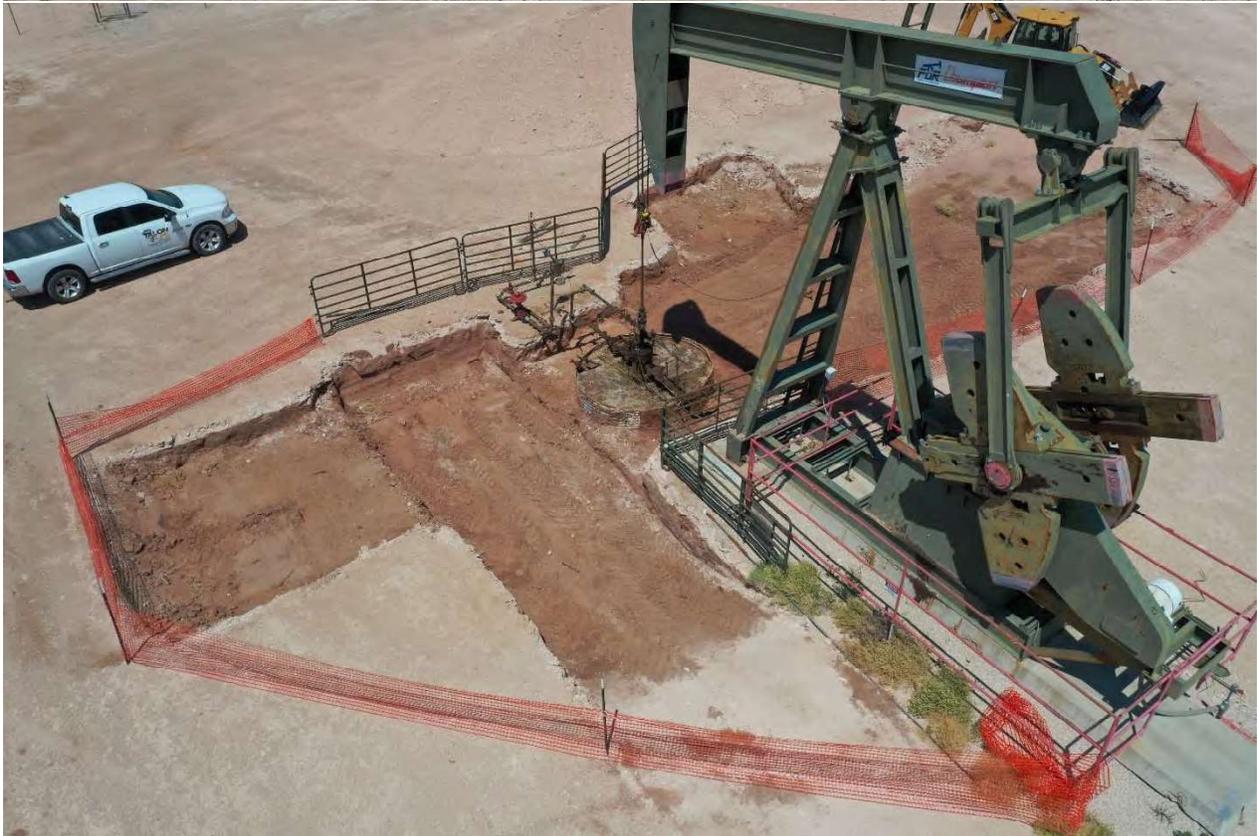
Burton Flat Deep Unit #061H Photographs



Burton Flat Deep Unit #061H Photographs



Burton Flat Deep Unit #061H Photographs



Burton Flat Deep Unit #061H Photographs





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

July 20, 2020

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

RE: Burton Flat Deep Unit 61H

OrderNo.: 2007549

Dear David Adkins:

Hall Environmental Analysis Laboratory received 17 sample(s) on 7/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

CLIENT: Talon Artesia

Client Sample ID: S-1 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:20:00 PM

Lab ID: 2007549-001

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	240	60		mg/Kg	20	7/14/2020 2:52:02 PM	53696
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2020 5:06:47 AM	53653
Surr: BFB	95.1	70-130		%Rec	1	7/14/2020 5:06:47 AM	53653
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/14/2020 4:03:43 PM	53668
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2020 4:03:43 PM	53668
Surr: DNOP	60.7	55.1-146		%Rec	1	7/14/2020 4:03:43 PM	53668
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	7/14/2020 5:06:47 AM	53653
Toluene	ND	0.050		mg/Kg	1	7/14/2020 5:06:47 AM	53653
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2020 5:06:47 AM	53653
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2020 5:06:47 AM	53653
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	7/14/2020 5:06:47 AM	53653
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	7/14/2020 5:06:47 AM	53653
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/14/2020 5:06:47 AM	53653
Surr: Toluene-d8	103	70-130		%Rec	1	7/14/2020 5:06:47 AM	53653

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:26:00 PM

Lab ID: 2007549-002

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	60		mg/Kg	20	7/15/2020 3:50:03 PM	53732
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2020 5:35:16 AM	53653
Surr: BFB	97.2	70-130		%Rec	1	7/14/2020 5:35:16 AM	53653
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	7/14/2020 2:01:31 PM	53668
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2020 2:01:31 PM	53668
Surr: DNOP	71.0	55.1-146		%Rec	1	7/14/2020 2:01:31 PM	53668
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	7/14/2020 5:35:16 AM	53653
Toluene	ND	0.050		mg/Kg	1	7/14/2020 5:35:16 AM	53653
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2020 5:35:16 AM	53653
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2020 5:35:16 AM	53653
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	7/14/2020 5:35:16 AM	53653
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	7/14/2020 5:35:16 AM	53653
Surr: Dibromofluoromethane	103	70-130		%Rec	1	7/14/2020 5:35:16 AM	53653
Surr: Toluene-d8	106	70-130		%Rec	1	7/14/2020 5:35:16 AM	53653

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		

Analytical Report

Lab Order 2007549

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:30:00 PM

Lab ID: 2007549-003

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	18000	600		mg/Kg	200	7/17/2020 6:44:14 AM	53732
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	9.8		mg/Kg	2	7/14/2020 6:03:41 AM	53653
Surr: BFB	101	70-130		%Rec	2	7/14/2020 6:03:41 AM	53653
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2020 2:11:48 PM	53668
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2020 2:11:48 PM	53668
Surr: DNOP	96.5	55.1-146		%Rec	1	7/14/2020 2:11:48 PM	53668
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.049		mg/Kg	2	7/14/2020 6:03:41 AM	53653
Toluene	ND	0.098		mg/Kg	2	7/14/2020 6:03:41 AM	53653
Ethylbenzene	ND	0.098		mg/Kg	2	7/14/2020 6:03:41 AM	53653
Xylenes, Total	ND	0.20		mg/Kg	2	7/14/2020 6:03:41 AM	53653
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	2	7/14/2020 6:03:41 AM	53653
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	2	7/14/2020 6:03:41 AM	53653
Surr: Dibromofluoromethane	106	70-130		%Rec	2	7/14/2020 6:03:41 AM	53653
Surr: Toluene-d8	110	70-130		%Rec	2	7/14/2020 6:03:41 AM	53653

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:35:00 PM

Lab ID: 2007549-004

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	860	60		mg/Kg	20	7/15/2020 4:14:44 PM	53732
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2020 6:32:13 AM	53653
Surr: BFB	95.2	70-130		%Rec	1	7/14/2020 6:32:13 AM	53653
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	63	9.6		mg/Kg	1	7/14/2020 2:22:03 PM	53668
Motor Oil Range Organics (MRO)	96	48		mg/Kg	1	7/14/2020 2:22:03 PM	53668
Surr: DNOP	116	55.1-146		%Rec	1	7/14/2020 2:22:03 PM	53668
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	7/14/2020 6:32:13 AM	53653
Toluene	ND	0.049		mg/Kg	1	7/14/2020 6:32:13 AM	53653
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2020 6:32:13 AM	53653
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2020 6:32:13 AM	53653
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	7/14/2020 6:32:13 AM	53653
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/14/2020 6:32:13 AM	53653
Surr: Dibromofluoromethane	103	70-130		%Rec	1	7/14/2020 6:32:13 AM	53653
Surr: Toluene-d8	104	70-130		%Rec	1	7/14/2020 6:32:13 AM	53653

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:54:00 PM

Lab ID: 2007549-005

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	15000	600		mg/Kg	200	7/17/2020 6:56:38 AM	53732
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	640	100		mg/Kg	10	7/14/2020 2:32:18 PM	53668
Motor Oil Range Organics (MRO)	510	500		mg/Kg	10	7/14/2020 2:32:18 PM	53668
Surr: DNOP	0	55.1-146	S	%Rec	10	7/14/2020 2:32:18 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 3:22:32 PM	53656
Surr: BFB	90.0	66.6-105		%Rec	1	7/13/2020 3:22:32 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2020 3:22:32 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/13/2020 3:22:32 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2020 3:22:32 PM	53656
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2020 3:22:32 PM	53656
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/13/2020 3:22:32 PM	53656

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	

Analytical Report

Lab Order 2007549

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 2'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 2:59:00 PM

Lab ID: 2007549-006

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	260	60		mg/Kg	20	7/16/2020 3:33:36 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	7/14/2020 2:42:30 PM	53668
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2020 2:42:30 PM	53668
Surr: DNOP	119	55.1-146		%Rec	1	7/14/2020 2:42:30 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 4:57:32 PM	53656
Surr: BFB	92.7	66.6-105		%Rec	1	7/13/2020 4:57:32 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2020 4:57:32 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/13/2020 4:57:32 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2020 4:57:32 PM	53656
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2020 4:57:32 PM	53656
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/13/2020 4:57:32 PM	53656

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:02:00 PM

Lab ID: 2007549-007

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	120	60		mg/Kg	20	7/16/2020 4:35:22 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/14/2020 2:52:40 PM	53668
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2020 2:52:40 PM	53668
Surr: DNOP	95.5	55.1-146		%Rec	1	7/14/2020 2:52:40 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2020 6:08:31 PM	53656
Surr: BFB	91.2	66.6-105		%Rec	1	7/13/2020 6:08:31 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2020 6:08:31 PM	53656
Toluene	ND	0.050		mg/Kg	1	7/13/2020 6:08:31 PM	53656
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2020 6:08:31 PM	53656
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2020 6:08:31 PM	53656
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/13/2020 6:08:31 PM	53656

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		

Analytical Report

Lab Order 2007549

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:05:00 PM

Lab ID: 2007549-008

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	120	60		mg/Kg	20	7/16/2020 4:47:44 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/14/2020 3:02:51 PM	53668
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2020 3:02:51 PM	53668
Surr: DNOP	111	55.1-146		%Rec	1	7/14/2020 3:02:51 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 6:32:05 PM	53656
Surr: BFB	93.3	66.6-105		%Rec	1	7/13/2020 6:32:05 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2020 6:32:05 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/13/2020 6:32:05 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2020 6:32:05 PM	53656
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2020 6:32:05 PM	53656
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/13/2020 6:32:05 PM	53656

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:13:00 PM

Lab ID: 2007549-009

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	9900	600		mg/Kg	200	7/17/2020 7:09:03 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	32000	1900		mg/Kg	200	7/14/2020 4:04:25 PM	53668
Motor Oil Range Organics (MRO)	18000	9300		mg/Kg	200	7/14/2020 4:04:25 PM	53668
Surr: DNOP	0	55.1-146	S	%Rec	200	7/14/2020 4:04:25 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	810	25		mg/Kg	5	7/13/2020 6:55:38 PM	53656
Surr: BFB	1170	66.6-105	S	%Rec	5	7/13/2020 6:55:38 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	7/13/2020 6:55:38 PM	53656
Toluene	6.8	0.25		mg/Kg	5	7/13/2020 6:55:38 PM	53656
Ethylbenzene	17	0.25		mg/Kg	5	7/13/2020 6:55:38 PM	53656
Xylenes, Total	99	5.0		mg/Kg	50	7/14/2020 12:09:14 PM	53656
Surr: 4-Bromofluorobenzene	268	80-120	S	%Rec	5	7/13/2020 6:55:38 PM	53656

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 2'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:16:00 PM

Lab ID: 2007549-010

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	780	60		mg/Kg	20	7/16/2020 5:12:25 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	28	9.8		mg/Kg	1	7/14/2020 3:23:10 PM	53668
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2020 3:23:10 PM	53668
Surr: DNOP	107	55.1-146		%Rec	1	7/14/2020 3:23:10 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 7:42:43 PM	53656
Surr: BFB	94.9	66.6-105		%Rec	1	7/13/2020 7:42:43 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2020 7:42:43 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/13/2020 7:42:43 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2020 7:42:43 PM	53656
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2020 7:42:43 PM	53656
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/13/2020 7:42:43 PM	53656

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:18:00 PM

Lab ID: 2007549-011

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1800	60		mg/Kg	20	7/16/2020 5:24:45 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	420	9.5		mg/Kg	1	7/14/2020 4:14:33 PM	53668
Motor Oil Range Organics (MRO)	350	48		mg/Kg	1	7/14/2020 4:14:33 PM	53668
Surr: DNOP	129	55.1-146		%Rec	1	7/14/2020 4:14:33 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/13/2020 8:06:13 PM	53656
Surr: BFB	101	66.6-105	D	%Rec	5	7/13/2020 8:06:13 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	7/13/2020 8:06:13 PM	53656
Toluene	ND	0.25	D	mg/Kg	5	7/13/2020 8:06:13 PM	53656
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/13/2020 8:06:13 PM	53656
Xylenes, Total	0.63	0.50	D	mg/Kg	5	7/13/2020 8:06:13 PM	53656
Surr: 4-Bromofluorobenzene	103	80-120	D	%Rec	5	7/13/2020 8:06:13 PM	53656

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:27:00 PM

Lab ID: 2007549-012

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1100	60		mg/Kg	20	7/16/2020 5:37:05 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	41	9.5		mg/Kg	1	7/14/2020 3:44:09 PM	53668
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2020 3:44:09 PM	53668
Surr: DNOP	123	55.1-146		%Rec	1	7/14/2020 3:44:09 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 8:29:39 PM	53656
Surr: BFB	91.5	66.6-105		%Rec	1	7/13/2020 8:29:39 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/13/2020 8:29:39 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/13/2020 8:29:39 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2020 8:29:39 PM	53656
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2020 8:29:39 PM	53656
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/13/2020 8:29:39 PM	53656

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:32:00 PM

Lab ID: 2007549-013

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	28000	1500		mg/Kg	500	7/17/2020 7:21:27 AM	53741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	6500	95		mg/Kg	10	7/14/2020 3:54:16 PM	53668
Motor Oil Range Organics (MRO)	5100	470		mg/Kg	10	7/14/2020 3:54:16 PM	53668
Surr: DNOP	0	55.1-146	S	%Rec	10	7/14/2020 3:54:16 PM	53668
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2020 8:53:04 PM	53656
Surr: BFB	90.4	66.6-105		%Rec	1	7/13/2020 8:53:04 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2020 8:53:04 PM	53656
Toluene	ND	0.050		mg/Kg	1	7/13/2020 8:53:04 PM	53656
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2020 8:53:04 PM	53656
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2020 8:53:04 PM	53656
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/13/2020 8:53:04 PM	53656

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	

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 2'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:39:00 PM

Lab ID: 2007549-014

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4800	150		mg/Kg	50	7/17/2020 1:34:52 PM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	7/14/2020 10:17:44 AM	53669
Motor Oil Range Organics (MRO)	650	500		mg/Kg	10	7/14/2020 10:17:44 AM	53669
Surr: DNOP	0	55.1-146	S	%Rec	10	7/14/2020 10:17:44 AM	53669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2020 9:39:57 PM	53656
Surr: BFB	87.7	66.6-105		%Rec	1	7/13/2020 9:39:57 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/13/2020 9:39:57 PM	53656
Toluene	ND	0.050		mg/Kg	1	7/13/2020 9:39:57 PM	53656
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2020 9:39:57 PM	53656
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2020 9:39:57 PM	53656
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	7/13/2020 9:39:57 PM	53656

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		

Analytical Report

Lab Order 2007549

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:42:00 PM

Lab ID: 2007549-015

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	110	60		mg/Kg	20	7/16/2020 10:52:58 AM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	19	9.5		mg/Kg	1	7/14/2020 2:49:48 PM	53669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2020 2:49:48 PM	53669
Surr: DNOP	114	55.1-146		%Rec	1	7/14/2020 2:49:48 PM	53669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2020 11:13:38 PM	53656
Surr: BFB	91.1	66.6-105		%Rec	1	7/13/2020 11:13:38 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/14/2020 12:32:48 PM	53656
Toluene	ND	0.049		mg/Kg	1	7/14/2020 12:32:48 PM	53656
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2020 12:32:48 PM	53656
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2020 12:32:48 PM	53656
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/14/2020 12:32:48 PM	53656

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:45:00 PM

Lab ID: 2007549-016

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	140	61		mg/Kg	20	7/16/2020 11:05:23 AM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/14/2020 3:14:22 PM	53669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2020 3:14:22 PM	53669
Surr: DNOP	112	55.1-146		%Rec	1	7/14/2020 3:14:22 PM	53669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2020 11:37:12 PM	53656
Surr: BFB	89.6	66.6-105		%Rec	1	7/13/2020 11:37:12 PM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/14/2020 12:56:22 PM	53656
Toluene	ND	0.048		mg/Kg	1	7/14/2020 12:56:22 PM	53656
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2020 12:56:22 PM	53656
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2020 12:56:22 PM	53656
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/14/2020 12:56:22 PM	53656

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		

Analytical Report

Lab Order **2007549**

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 0-1' R

Project: Burton Flat Deep Unit 61H

Collection Date: 7/9/2020 3:50:00 PM

Lab ID: 2007549-017

Matrix: SOIL

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	1900	60		mg/Kg	20	7/16/2020 11:17:47 AM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13000	920		mg/Kg	100	7/14/2020 11:54:24 AM	53669
Motor Oil Range Organics (MRO)	5800	4600		mg/Kg	100	7/14/2020 11:54:24 AM	53669
Surr: DNOP	0	55.1-146	S	%Rec	100	7/14/2020 11:54:24 AM	53669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	110	25		mg/Kg	5	7/14/2020 12:00:45 AM	53656
Surr: BFB	308	66.6-105	S	%Rec	5	7/14/2020 12:00:45 AM	53656
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	7/14/2020 1:19:59 PM	53656
Toluene	ND	0.25		mg/Kg	5	7/14/2020 1:19:59 PM	53656
Ethylbenzene	1.1	0.25		mg/Kg	5	7/14/2020 1:19:59 PM	53656
Xylenes, Total	9.0	0.50		mg/Kg	5	7/14/2020 1:19:59 PM	53656
Surr: 4-Bromofluorobenzene	138	80-120	S	%Rec	5	7/14/2020 1:19:59 PM	53656

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: MB-53696	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53696	RunNo: 70327								
Prep Date: 7/14/2020	Analysis Date: 7/14/2020	SeqNo: 2444984	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53696	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53696	RunNo: 70327								
Prep Date: 7/14/2020	Analysis Date: 7/14/2020	SeqNo: 2444986	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID: MB-53732	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53732	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446403	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53732	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53732	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446404	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: MB-53741	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53741	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446448	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53741	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53741	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2446449	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	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#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: MB-53754	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53754	RunNo: 70388								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2447699	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53754	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53754	RunNo: 70388								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2447700	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: MB-53669	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53669	RunNo: 70308								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2443932			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		124	55.1	146			

Sample ID: LCS-53669	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53669	RunNo: 70308								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2443934			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	119	70	130			
Surr: DNOP	5.5		5.000		110	55.1	146			

Sample ID: MB-53668	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53668	RunNo: 70308								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2444056			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		122	55.1	146			

Sample ID: LCS-53668	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53668	RunNo: 70308								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2444057			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	117	70	130			
Surr: DNOP	5.3		5.000		107	55.1	146			

Qualifiers:

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: mb-53656	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443693	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	66.6	105			

Sample ID: lcs-53656	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443694	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	80	120			
Surr: BFB	1100		1000		105	66.6	105			S

Sample ID: 2007549-006ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-5 2'	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443697	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.70	0	93.0	80	120			
Surr: BFB	1000		988.1		101	66.6	105			

Sample ID: 2007549-006amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-5 2'	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443698	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.90	0	98.0	80	120	6.07	20	
Surr: BFB	1000		996.0		102	66.6	105	0	0	

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: mb-53656	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443719							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: LCS-53656	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443720							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: 2007549-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-5 0-1'	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443722							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9950	0	109	78.5	119			
Toluene	1.1	0.050	0.9950	0	112	75.7	123			
Ethylbenzene	1.1	0.050	0.9950	0	113	74.3	126			
Xylenes, Total	3.4	0.10	2.985	0	114	72.9	130			
Surr: 4-Bromofluorobenzene	1.0		0.9950		104	80	120			

Sample ID: 2007549-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-5 0-1'	Batch ID: 53656	RunNo: 70301								
Prep Date: 7/12/2020	Analysis Date: 7/13/2020	SeqNo: 2443723							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9990	0	111	78.5	119	2.44	20	
Toluene	1.1	0.050	0.9990	0	113	75.7	123	1.82	20	
Ethylbenzene	1.1	0.050	0.9990	0	115	74.3	126	2.18	20	
Xylenes, Total	3.5	0.10	2.997	0	115	72.9	130	1.36	20	
Surr: 4-Bromofluorobenzene	1.0		0.9990		104	80	120	0	0	

Qualifiers:

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb-53653 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS Batch ID: 53653 RunNo: 70290										
Prep Date: 7/11/2020 Analysis Date: 7/13/2020 SeqNo: 2444007 Units: mg/Kg										
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: ics-53653 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC Batch ID: 53653 RunNo: 70290										
Prep Date: 7/11/2020 Analysis Date: 7/13/2020 SeqNo: 2444008 Units: mg/Kg										
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb-53676 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS Batch ID: 53676 RunNo: 70347										
Prep Date: 7/13/2020 Analysis Date: 7/14/2020 SeqNo: 2444960 Units: %Rec										
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: ics-53676 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC Batch ID: 53676 RunNo: 70347										
Prep Date: 7/13/2020 Analysis Date: 7/14/2020 SeqNo: 2444961 Units: %Rec										
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: Ics-53676	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 53676	RunNo: 70347								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2444961	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.53		0.5000		107	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007549

20-Jul-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: mb-53653	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 53653	RunNo: 70290								
Prep Date: 7/11/2020	Analysis Date: 7/13/2020	SeqNo: 2444030	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.8	70	130			

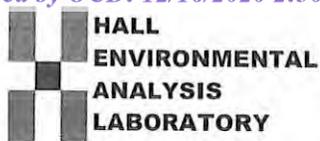
Sample ID: ics-53653	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 53653	RunNo: 70290								
Prep Date: 7/11/2020	Analysis Date: 7/13/2020	SeqNo: 2444031	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.0	70	130			
Surr: BFB	490		500.0		97.7	70	130			

Sample ID: mb-53676	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 53676	RunNo: 70347								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2445114	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	500		500.0		99.7	70	130			

Sample ID: ics-53676	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 53676	RunNo: 70347								
Prep Date: 7/13/2020	Analysis Date: 7/14/2020	SeqNo: 2445115	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	470		500.0		94.6	70	130			

Qualifiers:

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



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: 2007549 RcptNo: 1

Received By: Isaiah Ortiz 7/11/2020 7:10:00 AM
Completed By: Isaiah Ortiz 7/11/2020 7:30:47 AM
Reviewed By: [Signature] 7/11/2020

IOX
IOX

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: 7/11/20
Adjusted?
Checked by: [Signature]

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. Row 1: 1, 0.4, Good, Not Present, [], [], []

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave

Phone #: 575-491-6460

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: Burton Flat Deep Unit 6/LH

Project #: 700794346.01

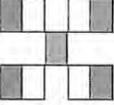
Project Manager: David Adkins

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: _____

Cooler Temp (including CF): 04-01CF/0.4°C



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)
<input type="checkbox"/> 8081 Pesticides/8082 PCB's	<input type="checkbox"/> EDB (Method 504.1)
<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals
<input type="checkbox"/> Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	<input type="checkbox"/> 8260 (VOA)
<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7-9-20	14:20	soil	S-1 0-1'	4 oz jar	ice	2007549 001
	14:26		S-2 0-1'			002
	14:30		S-3 0-1'			003
	14:35		S-4 0-1'			004
	14:54		S-5 0-1'			005
	14:59		S-5 2'			006
	15:02		S-5 3'			007
	15:05		S-5 4'			008
	15:13		S-6 0-1'			009
	15:16		S-6 2'			010
	15:19		S-6 3'			011
	15:27		S-6 4'			012

Received by: Wummings Date: 7/10/20 Time: 15:20

Relinquished by: W Cummings Date: 7/10/20 Time: 07:10

Remarks: Bill to Devon Energy

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave

Phone #: 575-491-6460

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: Burton Flat Deep Unit 61H

Project #: 700794.346.01

Project Manager: David Adkins

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CFI): 04-01CFJ04

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No
7-9-20	15:32	soil	S-7 0-1'	4 oz jar	ice	2007549
	15:39		S-7 2'			013
	15:42		S-7 3'			014
	15:45		S-7 4'			015
	15:50		S-8 0-1'R			016
						017



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCB's	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input checked="" type="checkbox"/> Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)
--	--	---	---	---	--	---	-------------------------------------	--	--

Received by: Wunning Date: 7/10/20 Time: 1250

Relinquished by: [Signature]

Date: 7/10/20 Time: 1900

Received by: Tron conin Date: 7/11/20 Time: 0710

Relinquished by: Wunning

Remarks: Bill to Devon Energy

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

August 26, 2020

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

RE: Burton Flat Deep Unit 61H

OrderNo.: 2008A72

Dear David Adkins:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/20/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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 **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-1 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 10:25:00 AM

Lab ID: 2008A72-001

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/26/2020 3:23:17 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2020 2:30:43 PM	54576
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 2:30:43 PM	54576
Surr: DNOP	82.5	30.4-154		%Rec	1	8/21/2020 2:30:43 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 10:36:59 AM	54569
Surr: BFB	97.4	75.3-105		%Rec	1	8/21/2020 10:36:59 AM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 10:36:59 AM	54569
Toluene	ND	0.050		mg/Kg	1	8/21/2020 10:36:59 AM	54569
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 10:36:59 AM	54569
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 10:36:59 AM	54569
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	8/21/2020 10:36:59 AM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-2 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 10:30:00 AM

Lab ID: 2008A72-002

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	85	60		mg/Kg	20	8/26/2020 3:35:42 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/21/2020 3:00:26 PM	54576
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/21/2020 3:00:26 PM	54576
Surr: DNOP	76.8	30.4-154		%Rec	1	8/21/2020 3:00:26 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 11:47:23 AM	54569
Surr: BFB	97.8	75.3-105		%Rec	1	8/21/2020 11:47:23 AM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 11:47:23 AM	54569
Toluene	ND	0.049		mg/Kg	1	8/21/2020 11:47:23 AM	54569
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 11:47:23 AM	54569
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 11:47:23 AM	54569
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/21/2020 11:47:23 AM	54569

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	

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-3 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:23:00 AM

Lab ID: 2008A72-003

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	75	61		mg/Kg	20	8/26/2020 3:48:06 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	8/21/2020 3:10:18 PM	54576
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/21/2020 3:10:18 PM	54576
Surr: DNOP	84.2	30.4-154		%Rec	1	8/21/2020 3:10:18 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/21/2020 12:58:02 PM	54569
Surr: BFB	99.8	75.3-105		%Rec	1	8/21/2020 12:58:02 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/21/2020 12:58:02 PM	54569
Toluene	ND	0.046		mg/Kg	1	8/21/2020 12:58:02 PM	54569
Ethylbenzene	ND	0.046		mg/Kg	1	8/21/2020 12:58:02 PM	54569
Xylenes, Total	ND	0.092		mg/Kg	1	8/21/2020 12:58:02 PM	54569
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/21/2020 12:58:02 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-4 0-1'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:26:00 AM

Lab ID: 2008A72-004

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/26/2020 4:00:31 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/21/2020 3:20:11 PM	54576
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/21/2020 3:20:11 PM	54576
Surr: DNOP	82.4	30.4-154		%Rec	1	8/21/2020 3:20:11 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 1:21:36 PM	54569
Surr: BFB	102	75.3-105		%Rec	1	8/21/2020 1:21:36 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 1:21:36 PM	54569
Toluene	ND	0.048		mg/Kg	1	8/21/2020 1:21:36 PM	54569
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 1:21:36 PM	54569
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 1:21:36 PM	54569
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/21/2020 1:21:36 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 BC 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 11:45:00 AM

Lab ID: 2008A72-005

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	97	60		mg/Kg	20	8/26/2020 4:12:56 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	8/21/2020 3:30:03 PM	54576
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/21/2020 3:30:03 PM	54576
Surr: DNOP	97.6	30.4-154		%Rec	1	8/21/2020 3:30:03 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/21/2020 1:45:11 PM	54569
Surr: BFB	102	75.3-105		%Rec	1	8/21/2020 1:45:11 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/21/2020 1:45:11 PM	54569
Toluene	ND	0.046		mg/Kg	1	8/21/2020 1:45:11 PM	54569
Ethylbenzene	ND	0.046		mg/Kg	1	8/21/2020 1:45:11 PM	54569
Xylenes, Total	ND	0.092		mg/Kg	1	8/21/2020 1:45:11 PM	54569
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/21/2020 1:45:11 PM	54569

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	

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 W SW 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 11:50:00 AM

Lab ID: 2008A72-006

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	66	60		mg/Kg	20	8/26/2020 4:25:21 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2020 3:39:55 PM	54576
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 3:39:55 PM	54576
Surr: DNOP	86.5	30.4-154		%Rec	1	8/21/2020 3:39:55 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/21/2020 2:08:46 PM	54569
Surr: BFB	98.5	75.3-105		%Rec	1	8/21/2020 2:08:46 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/21/2020 2:08:46 PM	54569
Toluene	ND	0.047		mg/Kg	1	8/21/2020 2:08:46 PM	54569
Ethylbenzene	ND	0.047		mg/Kg	1	8/21/2020 2:08:46 PM	54569
Xylenes, Total	ND	0.093		mg/Kg	1	8/21/2020 2:08:46 PM	54569
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	8/21/2020 2:08:46 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 BC 2.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 11:05:00 AM

Lab ID: 2008A72-007

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	8/26/2020 4:37:45 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/21/2020 3:49:47 PM	54576
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 3:49:47 PM	54576
Surr: DNOP	97.9	30.4-154		%Rec	1	8/21/2020 3:49:47 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 2:32:24 PM	54569
Surr: BFB	98.2	75.3-105		%Rec	1	8/21/2020 2:32:24 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 2:32:24 PM	54569
Toluene	ND	0.050		mg/Kg	1	8/21/2020 2:32:24 PM	54569
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 2:32:24 PM	54569
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 2:32:24 PM	54569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/21/2020 2:32:24 PM	54569

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	

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 W SW 3.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:12:00 AM

Lab ID: 2008A72-008

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	8/26/2020 4:50:10 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2020 3:59:37 PM	54576
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 3:59:37 PM	54576
Surr: DNOP	87.0	30.4-154		%Rec	1	8/21/2020 3:59:37 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/21/2020 2:56:07 PM	54569
Surr: BFB	99.0	75.3-105		%Rec	1	8/21/2020 2:56:07 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/21/2020 2:56:07 PM	54569
Toluene	ND	0.046		mg/Kg	1	8/21/2020 2:56:07 PM	54569
Ethylbenzene	ND	0.046		mg/Kg	1	8/21/2020 2:56:07 PM	54569
Xylenes, Total	ND	0.093		mg/Kg	1	8/21/2020 2:56:07 PM	54569
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/21/2020 2:56:07 PM	54569

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	

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 S SW 2.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 10:50:00 AM

Lab ID: 2008A72-009

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	8/26/2020 5:27:24 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/21/2020 4:09:28 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 4:09:28 PM	54576
Surr: DNOP	83.2	30.4-154		%Rec	1	8/21/2020 4:09:28 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 3:19:47 PM	54569
Surr: BFB	100	75.3-105		%Rec	1	8/21/2020 3:19:47 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 3:19:47 PM	54569
Toluene	ND	0.048		mg/Kg	1	8/21/2020 3:19:47 PM	54569
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 3:19:47 PM	54569
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 3:19:47 PM	54569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/21/2020 3:19:47 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 BC W 3.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:16:00 AM

Lab ID: 2008A72-010

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	8/26/2020 5:39:49 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/21/2020 4:19:20 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 4:19:20 PM	54576
Surr: DNOP	91.0	30.4-154		%Rec	1	8/21/2020 4:19:20 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/21/2020 3:43:28 PM	54569
Surr: BFB	97.5	75.3-105		%Rec	1	8/21/2020 3:43:28 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 3:43:28 PM	54569
Toluene	ND	0.050		mg/Kg	1	8/21/2020 3:43:28 PM	54569
Ethylbenzene	ND	0.050		mg/Kg	1	8/21/2020 3:43:28 PM	54569
Xylenes, Total	ND	0.10		mg/Kg	1	8/21/2020 3:43:28 PM	54569
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/21/2020 3:43:28 PM	54569

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	

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 BC E 3.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:18:00 AM

Lab ID: 2008A72-011

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/26/2020 5:52:14 AM	54676
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	8/21/2020 4:29:08 PM	54576
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	8/21/2020 4:29:08 PM	54576
Surr: DNOP	107	30.4-154		%Rec	1	8/21/2020 4:29:08 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/21/2020 4:54:39 PM	54569
Surr: BFB	98.9	75.3-105		%Rec	1	8/21/2020 4:54:39 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/21/2020 4:54:39 PM	54569
Toluene	ND	0.047		mg/Kg	1	8/21/2020 4:54:39 PM	54569
Ethylbenzene	ND	0.047		mg/Kg	1	8/21/2020 4:54:39 PM	54569
Xylenes, Total	ND	0.093		mg/Kg	1	8/21/2020 4:54:39 PM	54569
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/21/2020 4:54:39 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 E SW 3.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:20:00 AM

Lab ID: 2008A72-012

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	80	60		mg/Kg	20	8/25/2020 7:07:22 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/21/2020 4:38:56 PM	54576
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/21/2020 4:38:56 PM	54576
Surr: DNOP	82.4	30.4-154		%Rec	1	8/21/2020 4:38:56 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/21/2020 5:18:26 PM	54569
Surr: BFB	96.7	75.3-105		%Rec	1	8/21/2020 5:18:26 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 5:18:26 PM	54569
Toluene	ND	0.047		mg/Kg	1	8/21/2020 5:18:26 PM	54569
Ethylbenzene	ND	0.047		mg/Kg	1	8/21/2020 5:18:26 PM	54569
Xylenes, Total	ND	0.095		mg/Kg	1	8/21/2020 5:18:26 PM	54569
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/21/2020 5:18:26 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 BC S 4.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:38:00 AM

Lab ID: 2008A72-013

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 7:44:35 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/21/2020 4:48:42 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 4:48:42 PM	54576
Surr: DNOP	91.3	30.4-154		%Rec	1	8/21/2020 4:48:42 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 5:42:09 PM	54569
Surr: BFB	97.1	75.3-105		%Rec	1	8/21/2020 5:42:09 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 5:42:09 PM	54569
Toluene	ND	0.049		mg/Kg	1	8/21/2020 5:42:09 PM	54569
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 5:42:09 PM	54569
Xylenes, Total	ND	0.099		mg/Kg	1	8/21/2020 5:42:09 PM	54569
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/21/2020 5:42:09 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 BC N 4.5'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:35:00 AM

Lab ID: 2008A72-014

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 7:57:00 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/21/2020 4:58:27 PM	54576
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/21/2020 4:58:27 PM	54576
Surr: DNOP	91.2	30.4-154		%Rec	1	8/21/2020 4:58:27 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 6:05:54 PM	54569
Surr: BFB	99.7	75.3-105		%Rec	1	8/21/2020 6:05:54 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 6:05:54 PM	54569
Toluene	ND	0.049		mg/Kg	1	8/21/2020 6:05:54 PM	54569
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 6:05:54 PM	54569
Xylenes, Total	ND	0.098		mg/Kg	1	8/21/2020 6:05:54 PM	54569
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/21/2020 6:05:54 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 BC S 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:33:00 AM

Lab ID: 2008A72-015

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 8:09:25 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/21/2020 5:08:15 PM	54576
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/21/2020 5:08:15 PM	54576
Surr: DNOP	95.3	30.4-154		%Rec	1	8/21/2020 5:08:15 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 6:29:40 PM	54569
Surr: BFB	99.2	75.3-105		%Rec	1	8/21/2020 6:29:40 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 6:29:40 PM	54569
Toluene	ND	0.048		mg/Kg	1	8/21/2020 6:29:40 PM	54569
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 6:29:40 PM	54569
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 6:29:40 PM	54569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/21/2020 6:29:40 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 BC N 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 11:31:00 AM

Lab ID: 2008A72-016

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 8:21:50 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/21/2020 5:18:10 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 5:18:10 PM	54576
Surr: DNOP	89.0	30.4-154		%Rec	1	8/21/2020 5:18:10 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 6:53:23 PM	54569
Surr: BFB	97.4	75.3-105		%Rec	1	8/21/2020 6:53:23 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 6:53:23 PM	54569
Toluene	ND	0.049		mg/Kg	1	8/21/2020 6:53:23 PM	54569
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 6:53:23 PM	54569
Xylenes, Total	ND	0.097		mg/Kg	1	8/21/2020 6:53:23 PM	54569
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/21/2020 6:53:23 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 E SW 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 12:15:00 PM

Lab ID: 2008A72-017

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	91	60		mg/Kg	20	8/25/2020 8:34:15 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/21/2020 5:28:16 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 5:28:16 PM	54576
Surr: DNOP	101	30.4-154		%Rec	1	8/21/2020 5:28:16 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/21/2020 7:17:07 PM	54569
Surr: BFB	96.9	75.3-105		%Rec	1	8/21/2020 7:17:07 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 7:17:07 PM	54569
Toluene	ND	0.047		mg/Kg	1	8/21/2020 7:17:07 PM	54569
Ethylbenzene	ND	0.047		mg/Kg	1	8/21/2020 7:17:07 PM	54569
Xylenes, Total	ND	0.094		mg/Kg	1	8/21/2020 7:17:07 PM	54569
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/21/2020 7:17:07 PM	54569

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		

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 W SW 4'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/17/2020 12:02:00 PM

Lab ID: 2008A72-018

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 9:11:28 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/21/2020 5:38:26 PM	54576
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2020 5:38:26 PM	54576
Surr: DNOP	89.3	30.4-154		%Rec	1	8/21/2020 5:38:26 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2020 7:40:51 PM	54569
Surr: BFB	97.1	75.3-105		%Rec	1	8/21/2020 7:40:51 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/21/2020 7:40:51 PM	54569
Toluene	ND	0.049		mg/Kg	1	8/21/2020 7:40:51 PM	54569
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2020 7:40:51 PM	54569
Xylenes, Total	ND	0.099		mg/Kg	1	8/21/2020 7:40:51 PM	54569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/21/2020 7:40:51 PM	54569

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		

Analytical Report

Lab Order 2008A72

Date Reported: 8/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 BC 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 12:10:00 PM

Lab ID: 2008A72-019

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	72	60		mg/Kg	20	8/25/2020 9:23:52 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/21/2020 5:48:39 PM	54576
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/21/2020 5:48:39 PM	54576
Surr: DNOP	86.0	30.4-154		%Rec	1	8/21/2020 5:48:39 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 8:04:27 PM	54569
Surr: BFB	97.7	75.3-105		%Rec	1	8/21/2020 8:04:27 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 8:04:27 PM	54569
Toluene	ND	0.048		mg/Kg	1	8/21/2020 8:04:27 PM	54569
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 8:04:27 PM	54569
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 8:04:27 PM	54569
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/21/2020 8:04:27 PM	54569

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		

Page 19 of 24

Analytical Report

Lab Order **2008A72**

Date Reported: **8/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 N SW 3'

Project: Burton Flat Deep Unit 61H

Collection Date: 8/12/2020 12:25:00 PM

Lab ID: 2008A72-020

Matrix: SOIL

Received Date: 8/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/25/2020 9:36:16 PM	54686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/21/2020 5:58:50 PM	54576
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2020 5:58:50 PM	54576
Surr: DNOP	75.6	30.4-154		%Rec	1	8/21/2020 5:58:50 PM	54576
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/21/2020 8:28:00 PM	54569
Surr: BFB	100	75.3-105		%Rec	1	8/21/2020 8:28:00 PM	54569
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/21/2020 8:28:00 PM	54569
Toluene	ND	0.048		mg/Kg	1	8/21/2020 8:28:00 PM	54569
Ethylbenzene	ND	0.048		mg/Kg	1	8/21/2020 8:28:00 PM	54569
Xylenes, Total	ND	0.096		mg/Kg	1	8/21/2020 8:28:00 PM	54569
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	8/21/2020 8:28:00 PM	54569

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008A72

26-Aug-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: MB-54676	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54676	RunNo: 71336								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2490791	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: MB-54686	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54686	RunNo: 71361								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2491254	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54686	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54686	RunNo: 71361								
Prep Date: 8/25/2020	Analysis Date: 8/25/2020	SeqNo: 2491255	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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#: 2008A72

26-Aug-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: 2008A72-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG-1 0-1'	Batch ID: 54576	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489025	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.9	49.60	4.362	75.6	47.4	136			
Surr: DNOP	3.5		4.960		70.5	30.4	154			

Sample ID: 2008A72-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BG-1 0-1'	Batch ID: 54576	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489026	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	48.88	4.362	91.2	47.4	136	15.7	43.4	
Surr: DNOP	4.2		4.888		86.0	30.4	154	0	0	

Sample ID: LCS-54576	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54576	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489064	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	70	130			
Surr: DNOP	4.3		5.000		86.6	30.4	154			

Sample ID: MB-54576	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54576	RunNo: 71320								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2489066	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.3	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#: 2008A72

26-Aug-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: 2008a72-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BG-2 0-1'	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486355	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.65	0	95.9	61.3	114			
Surr: BFB	1000		986.2		105	75.3	105			S

Sample ID: 2008a72-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BG-2 0-1'	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.90	0	91.8	61.3	114	7.45	20	
Surr: BFB	1000		956.0		109	75.3	105	0	0	S

Sample ID: lcs-54569	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486397	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.0	72.5	106			
Surr: BFB	1100		1000		110	75.3	105			S

Sample ID: mb-54569	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486399	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	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#: 2008A72

26-Aug-20

Client: Talon Artesia
Project: Burton Flat Deep Unit 61H

Sample ID: 2008a72-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BG-1 0-1'	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486402	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9643	0	99.4	76.3	120			
Toluene	0.99	0.048	0.9643	0	102	78.5	120			
Ethylbenzene	1.0	0.048	0.9643	0	104	78.1	124			
Xylenes, Total	3.0	0.096	2.893	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9643		102	80	120			

Sample ID: 2008a72-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BG-1 0-1'	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486403	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9497	0	99.1	76.3	120	1.85	20	
Toluene	0.95	0.047	0.9497	0	100	78.5	120	3.49	20	
Ethylbenzene	0.97	0.047	0.9497	0	103	78.1	124	2.95	20	
Xylenes, Total	2.9	0.095	2.849	0	102	79.3	125	3.32	20	
Surr: 4-Bromofluorobenzene	0.96		0.9497		101	80	120	0	0	

Sample ID: LCS-54569	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486445	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: mb-54569	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54569	RunNo: 71260								
Prep Date: 8/20/2020	Analysis Date: 8/21/2020	SeqNo: 2486447	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	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: 2008A72 RcptNo: 1

Received By: **Juan Rojas** 8/20/2020 8:00:00 AM *Juan Rojas*
 Completed By: **Juan Rojas** 8/20/2020 8:30:30 AM *Juan Rojas*
 Reviewed By: **JR 8/20/20**

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 8/20/20*

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	0.6	Good				

Chain-of-Custody Record

Client: Talon/LPE

Mailing Address:

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:

Burton Flat Deep Unit 614

Project #: WO: 20860276

700794.346.01

Project Manager:

DJA

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.6-0.0-0.6

Container Type and #

Preservative Type

HEAL No.

7008A72

4 oz jar ice

TOB

-014

-015

-016

-017

-018

-019

-020

Date

Time

Matrix

Sample Name

8-17 11:38 5-6 BC S 4.5'

8-17 11:35 5-6 BC N 4.5'

8-17 11:33 5-7 BC S 4'

8-17 11:31 5-7 BC N 4'

8-12 12:15 5-7 E SW 4'

8-17 12:02 5-7 W SW 4'

8-12 12:10 5-8 BC 3'

8-12 12:25 5-8 N SW 3'

Date

Time

Relinquished by:

Relinquished by:

Date

Time

Via:

Date

Time

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time

Remarks:

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

Cl⁻, Br⁻, NO₃⁻, NO₂⁻, PO₄³⁻, SO₄²⁻

8260 (VOA)

8270 (Semi-VOA)

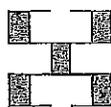
Total Coliform (Present/Absent)

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.

Bill Debo Direct

Received by: William Date: 8/12/05 Time: 1005
 Received by: William Date: 8/12/05 Time: 8:00

Chain-of-Custody Record



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Turn-Around Time: **4-day**
 Standard Rush
 Project Name: **Burton Flat Deep Unit 6/H**
 Project #: **WO: 20860276**
700794.346.01
 Project Manager:

DJA
 Sampler: **Brandon Sinclair**
 Office: Yes No
 # of Coolers: **1**
 Cooler Temperature: **26.6 C**

Container Type and #
 Preservative Type
 Date Time

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8-12	10:25	soil	BG-1 0-1'	4oz jar	ice	-001
8-12	10:30		BG-2 0-1'			-002
8-17	11:23		BG-3 0-1'			-003
8-17	11:26		BG-4 0-1'			-004
8-12	11:45		S-3 BC 3'			-005
8-12	11:50		S-3 W SW 3'			-006
8-12	11:05		S-4 BC 2.5'			-007
8-17	11:12		S-4 W SW 3.5'			-008
8-17	10:50		S-4 S SW 2.5'			-009
8-17	11:16		S-5 BC W 3.5'			-010
8-17	11:18		S-5 BC E 3.5'			-011
8-17	11:20		S-5 E SW 3.5'			-012

Relinquished by: *Brandon Sinclair*
 Date: **8/14/20**
 Relinquished by: *William Mungy*
 Date: **8/14/20**
 Received by: *Bill Dewas Direct*
 Date: **8/14/20**

BTX / MTBE / TMB's (8021)
 TPH/8015D(GRO / DRO / MRO)
 8081 Pesticides/8082 PCB's
 EDB (Method 504.1)
 PAHs by 8310 or 8270SIMS
 RCRA 8 Metals
 Cl, F, Br, NO₃, NO₂, PO₄, SO₄
 8260 (VOA)
 8270 (Semi-VOA)
 Total Coliform (Present/Absent)

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

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

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 12332

CONDITIONS OF APPROVAL

Operator: TALON LPE 408 W Texas Artesia, NM88210	OGRID: 329944	Action Number: 12332	Action Type: C-141
OCD Reviewer chensley	Condition None		