

Received by OCD: 5/22/2020 3:13:24 PM

Page 1 of 3

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	NRM2014569455
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-748-6195
Contact email Wesley.Mathews@dev.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy	

Location of Release Source

Latitude 32.6676 Longitude -103.8497
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bootes 15 Fed Com 1H	Site Type Oil
Date Release Discovered 5/10/2020	API# (if applicable) 30-015-40407

Unit Letter	Section	Township	Range	County
A	15	19S	31E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10.79 BBLS	Volume Recovered (bbls) 3 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 21.44 BBLS	Volume Recovered (bbls) 2 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 Fluid released from stuffing box on the well. Some fluid ran off pad.

Received by OCD: 5/22/2020 3:13:24 PM
Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Page 2 of 3

Incident ID	NRM2014569455
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? This is considered a major release because it is over 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given by email to Deborah McKinne, Robert Hamlet, Jim Griswold, Mike Bratcher, and Victoria Venegas from Wesley Mathews on 5/11/2020.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The 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: <u>Kendra DeHoyos</u> Signature: <u>Kendra DeHoyos</u> email: <u>Kendra.DeHoyos@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>5/22/2020</u> Telephone: <u>575-748-0167</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>5/24/2020</u>	

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	166 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

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Printed Name: Brandon Sinclair

Title: Environmental Project Manager

Signature: Brandon Sinclair

Date: 12-3-2020

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

Remediation Plan

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

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


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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Brandon Sinclair

Title: Environmental Project Manager

Signature: 

Date: 12-3-2020

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____ Date: _____

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

Signature: _____

Date: _____

talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan

Bootes 15 Federal Com #001H
Eddy County, New Mexico
API # 30-015-40407, NRM2014569455

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 03, 2020

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

Subject: **Soil Assessment and Remediation Work Plan**
Bootes 15 Federal Com #001H
Eddy County, New Mexico
API# 30-015-40407, NRM2014569455

Dear Mr. Bratcher,

Devon Energy Production Company (Devon Energy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

Bootes 15 Federal Com #001H is located approximately twenty-eight (28) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 15, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.6676254 North and -103.8497314 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 Kimbrough-Stegall loams, 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to lower Pleistocene in age and is comprised of loam underlain by a petrocalcic horizon derived from alluvium and/or eolian deposits. Drainage courses in this area are typically dry.

The United States Geological Survey's (USGS) National Water Information System indicates that the nearest groundwater is 166' below ground surface (BGS). The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 102-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		166 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

This site does not meet any of the above criteria, and the depth to groundwater is greater than 100-feet BGS. However, as the depth to groundwater could not be determined using a source within a half mile of the boundary of this release, a boring was advanced at sample point B-11 using a direct push sampling rig (Geoprobe) to 53' in order to exclude the presence of water at that depth. In addition, a portion of the release impacted pasture area to the south of the well pad. Therefore the closure criteria for each remediation area can be found within the data tables under the site assessment portion of this report.

Incident Description

On May 10, 2020, a mixture of 10.79 barrels (bbls) of crude oil and 21.44 bbls of produced water were discovered on the pad and pasture areas after having leaked from the stuffing box on the well. The initial C-141 is attached in **Appendix III**. A site map illustrating the affected area is presented in **Appendix I**.

Site Assessment

On May 29, 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 Geoprobe. Additional sampling was required in June in order to further delineate the impacted area. To verify the presence or absence of groundwater at depths below 50-feet (and to complete vertical delineation of the pasture area), an air-rotary drill rig was brought to the site in August (a soil boring log is presented in [Appendix II](#)). Groundwater was not encountered at 53-feet BGS after a 72-hour interval. Results from our sampling events are presented in the following data tables. A complete laboratory report can be found in [Appendix V](#).

Table 1 : Soil Sample Analysis of Pad Area

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	1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
B-1	0-1	5/29/2020	210.6	4.6	1500	3200	1600	6300.0	ND
	2	5/29/2020	0.75	0.023	5.8	150	83	238.8	ND
	3	5/29/2020	ND	ND	ND	ND	ND	-	ND
	4R	5/29/2020	0.037	ND	ND	19	ND	19.0	ND
B-2	0-1	5/29/2020	16.25	ND	150	1600	860	2610.0	61
	2	5/29/2020	ND	ND	ND	ND	ND	-	110
	3R	5/29/2020	ND	ND	ND	ND	ND	-	ND
B-3	0-1	5/29/2020	61.65	0.65	420	3500	1500	5420.0	ND
	2	5/29/2020	208.3	3.3	1300	3700	1400	6400.0	ND
	3R	5/29/2020	0.356	ND	ND	920	610	1530.0	ND
B-4	0-1	5/29/2020	ND	ND	ND	ND	ND	-	ND
	2	5/29/2020	ND	ND	ND	ND	ND	-	61
	3	5/29/2020	ND	ND	ND	ND	ND	-	ND
	4R	5/29/2020	ND	ND	ND	ND	ND	-	ND
B-5	0-1	5/29/2020	ND	ND	ND	16	ND	16.0	5200
	2	5/29/2020	ND	ND	ND	ND	ND	-	4000
	3	5/29/2020	ND	ND	ND	ND	ND	-	4300
	4R	5/29/2020	ND	ND	ND	ND	ND	-	3500

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	1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
B-6	0-1	5/29/2020	17.3	ND	69	2400	1500	3969.0	3800
	2	5/29/2020	0.2	ND	ND	ND	ND	-	970
	3	5/29/2020	0.14	ND	ND	ND	ND	-	550
	4R	5/29/2020	ND	ND	ND	ND	ND	-	360
B-7	0-1	5/29/2020	ND	ND	ND	ND	ND	-	390
	2	5/29/2020	ND	ND	ND	ND	ND	-	230
	3R	5/29/2020	ND	ND	ND	13	ND	13.0	990
B-8	0-1	5/29/2020	93.44	0.14	340	3900	2100	6340.0	3100
	2	5/29/2020	1.792	0.032	5.1	ND	ND	5.1	98
	3	5/29/2020	1.865	0.045	5.7	60	ND	65.7	170
	4R	5/29/2020	0.368	ND	ND	71	50	121.0	72
B-9	0-1	5/29/2020	6.337	0.027	29	1400	760	2189.0	4100
	2	5/29/2020	1.694	0.027	6.8	180	99	285.8	3100
	3	5/29/2020	1.156	0.029	ND	58	ND	58.0	1400
B-10	0-1	6/17/2020	3.32	ND	23	19000	12000	31023.0	13000
	2	6/17/2020	ND	ND	ND	180	120	300.0	290
	3	6/17/2020	ND	ND	ND	29	ND	29.0	220
	4	6/17/2020	ND	ND	ND	230	150	380.0	180

ND= Analyte Not Detected

R= Refusal with Geoprobe

Table 2 : Soil Sample Analysis of Pasture Area

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
B-11	0-1	6/17/2020	423.1	4.1	2700	11000	5100	18800.0	4200
	2	6/17/2020	1.519	0.029	13	290	170	473.0	220
	3R	6/17/2020	33.26	0.56	240	1500	940	2680.0	510
	4	8/4/2020	ND	ND	ND	60	ND	60.0	ND
	6	8/4/2020	ND	ND	ND	190	180	370.0	ND
	8	8/4/2020	ND	ND	ND	220	200	420.0	ND
	10	8/4/2020	NT	NT	ND	320	350	670.0	NT
	15	8/4/2020	NT	NT	ND	61	70	131.0	NT
	20	8/4/2020	NT	NT	ND	120	130	250.0	NT
	25	8/19/2020	NT	NT	ND	ND	ND	-	NT
	30	8/19/2020	NT	NT	ND	ND	ND	-	NT
B-12	0-1	6/17/2020	751	31	4300	21000	9100	34400.0	150
	2	6/17/2020	444	24	2800	11000	5200	19000.0	63
	3	6/17/2020	1.66	0.12	14	640	490	1144.0	ND
	4R	6/17/2020	ND	ND	ND	650	430	1080.0	94
	6	8/4/2020	NT	NT	ND	ND	ND	-	NT
	8	8/4/2020	NT	NT	ND	ND	ND	-	NT
B-13	0-1	6/17/2020	5.39	0.39	48	ND	ND	48.0	ND
	2R	6/17/2020	ND	ND	ND	ND	ND	-	ND
B-14	0-1	8/4/2020	ND	ND	ND	ND	ND	-	ND
	2	8/4/2020	ND	ND	ND	ND	ND	-	ND
	3R	8/4/2020	ND	ND	ND	ND	ND	-	ND

ND= Analyte Not Detected

NT=Analyte Not Tested

R= Refusal with Geoprobe

Proposed Remedial Actions

- Excavation activities within the separator battery and around the wellhead will be hand-excavated to the extent practicable. Potential limitations may exist due to safety concerns of field personnel and the presence of infrastructure (flow lines, electric lines, etc.).
- The impacted areas near sample points B-1, B-2, B-6 and B-8 through B-10 will be excavated to 2.0-feet BGS.
- The area near sample point B-3 will be excavated to 3.0-feet BGS.
- The surficial staining in the vicinity of sample points B-5 and B-7 (near the wellhead) will be scraped to a depth of 0.25-feet.
- The impacted pasture area near sample locations B-11 and B-12 will be excavated to a depth of 4.0-feet BGS. A site map illustrating the proposed excavation areas can be found in [Appendix I](#).
- The horizontal extent of the release will be verified with composite confirmation samples from both excavation area sidewalls (well pad and pasture). Additional horizontal confirmation samples will be collected 10-15 feet beyond the excavated areas to verify the release footprint.
- The excavated areas will be backfilled with new caliche on the well pad and locally obtained topsoil in the pasture. Once the backfilling activities are complete the work areas will be machine compacted and contoured to match the surrounding terrain.
- The pasture area will be seeded with BLM Seed Mixture #1 utilizing a Culti-Pack seed drill.
- The excavated material (approximately 465 yards) will be transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- Remedial actions will commence within 14-days of client authorization to proceed.
- A final closure report documenting the remedial actions performed and a Final C-141 will be provided to the NMOCD District II Office.

Closure

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
Project Manager



David J. Adkins
Regional Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Boring Log, Groundwater & Soil Data, FEMA Flood Map
- Appendix III C-141 Forms
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data



APPENDIX I

SITE MAPS

Bootes 15 Federal Com #001H

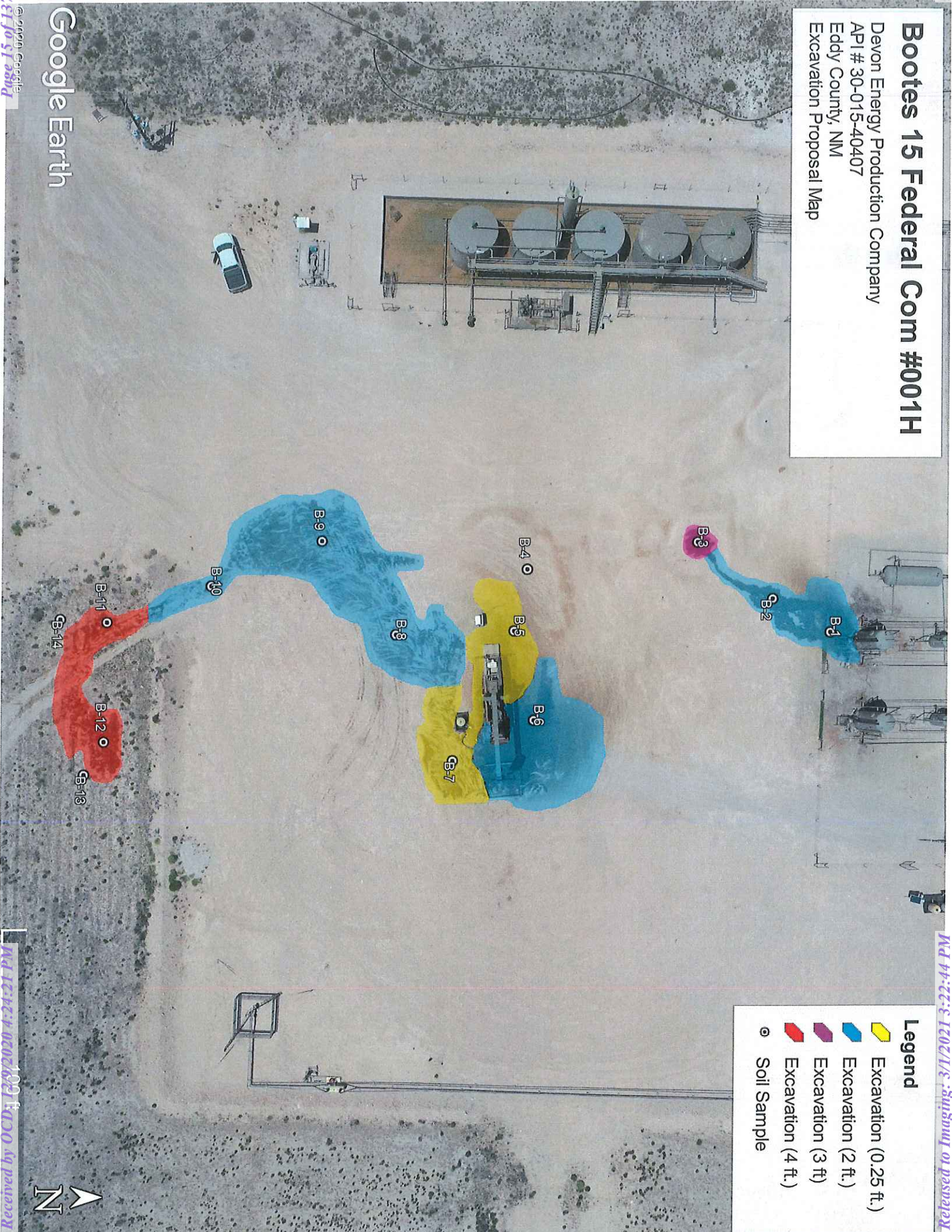
Devon Energy Production Company
API # 30-015-40407
Eddy County, NM
Excavation Proposal Map

Google Earth

© 2020 Google
L31 Jo 51 388d

Legend

- Excavation (0.25 ft.)
- Excavation (2 ft.)
- Excavation (3 ft.)
- Excavation (4 ft.)
- Soil Sample



MD 44-22-3-1202/1-3-2020 by pascual

Bootes 15 Federal Com #001H

Devon Energy Production Company
API # 30-015-40407
Eddy County, NM
Locator Map

Locust Hills

Maljamar

Bermuda Rd

Bootes 15 Fed Com 1H

360

243

176

162

31

Hobbs Hwy

529

Google Earth

© 2020 Google

10 mi

N

Bootes 15 Federal Com #001H

Devon Energy Production Company
API # 30-015-40407
Eddy County, NM
Karst Map

Legend
High
Low
Medium

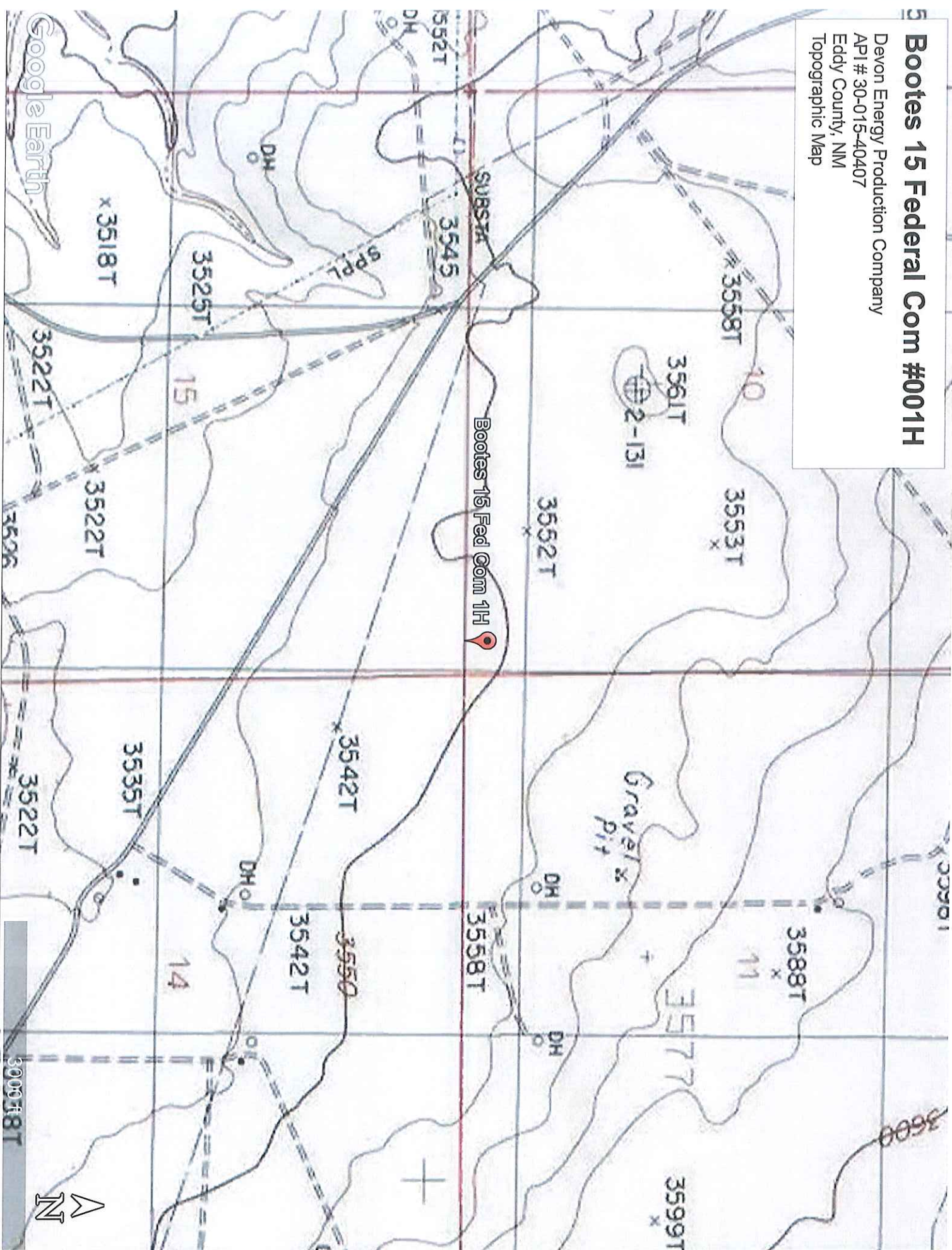
Bootes 15 Fed Com 1H

Google Earth

5 mi



Devon Energy Production Company
API # 30-015-40407
Eddy County, NM
Topographic Map





APPENDIX II

SOIL BORING LOG

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD MAP



BORING LOG

Project No.: 700794.343.01

Weather: Sunny, Warm Temp.: 90s °F

Driller: M. Doyle

Site Name: Bootes 15 Federal Com 1H

Logger: B. Sinclair

Rig Type: Geoprobe 7822DT

Location: Eddy County, New Mexico

Field Instrument: Lab Analysis

Bit Size: 5 1/4"

Date: 8/4/2020

Latitude: 32.667258° N

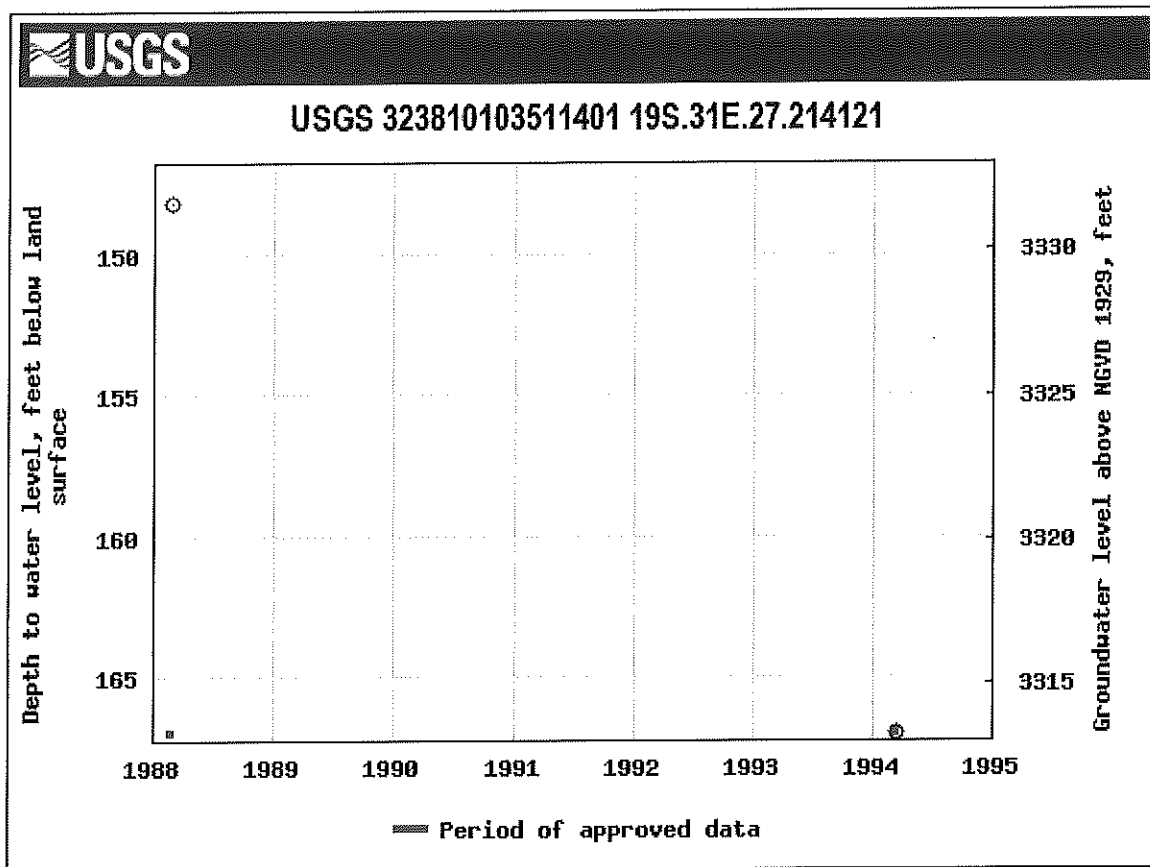
Drilling Method: Air Rotary

Boring Number: B-11

Longitude: -103.849887° W

Sample Retrieval Method: Core Liner

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
		0-5'				Tan to light brown slightly silty fine Sand (SP-SM)	Slight	
		5-10'				Light tan fine Sand (SP)	Slight	
		10-15'				Light red/brown fine Sand (SP) with trace amounts of caliche.	Slight	
		15-20'				Dark red/brown fine Sand (SP) with varying amounts of caliche.	None	
		20-53'				Dark red/brown fine Sand (SP) with varying amounts of caliche.	None	
Surface Elevation: _____ Notes: TD 53', Groundwater Not Encountered Logger Initials: B.S.								



Bootes 15 Federal Com #001H

Devon Energy Production Company
API # 30-015-40407
Eddy County, NM
Well Proximity Map

Bootes 15 Fed Com 1H

USGS Well Site # 323810103511401

Google Earth



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E		607166	3613354	1808	400		
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E		607165	3613322	1838	400		
CP 00829 POD1		CP	LE		2	4	16	19S	31E		606165	3614009*	1974	120		
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E		608012	3618757*	3734	300		
CP 00563 POD1		CP	LE	1	1	2	19	19S	32E		612118	3613376*	4568	300		
CP 00642 POD1		CP	ED		2	2	25	19S	31E		611025	3611657*	4623	250		
CP 00640 POD1		CP	LE		2	2	19	19S	32E		612621	3613280*	5073	260	102	158
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E		604906	3610473*	5425	231		
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E		605106	3610273*	5491	200		
CP 00639 POD1		CP	LE		3	1	20	19S	32E		613029	3612880*	5598	350	345	5
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E		605111	3610071*	5664	139		
CP 01656 POD2		CP	LE	3	4	3	17	19S	32E		613364	3613648	5675	70		
CP 01656 POD1		CP	LE	3	4	3	17	19S	32E		613368	3613646	5680	70		
CP 01656 POD3		CP	LE	3	4	3	17	19S	32E		613374	3613633	5689	30		
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E		605519	3609673*	5840	220	140	80
CP 00641 POD1		CP	ED		4	1	36	19S	31E		610247	3609634*	5897	300	130	170
CP 00873 POD1		CP	LE		1	1	19	19S	31E		601772	3613147*	6368	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E		600667	3612631*	7578	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E		600265	3612627*	7962	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E		600276	3611620*	8311	350	65	285
CP 00520		CP	ED	4	4	1	10	20S	31E		607163	3606278*	8774	280	130	150
CP 00767 POD1		CP	ED		3	2	35	18S	30E		599300	3619158*	9503	500		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E		598235	3614621*	9630	200	92	108
CP 00822 POD1		CP	LE		4	4	15	19S	30E		598148	3613516*	9826	90		

Average Depth to Water: 148 feet
Minimum Depth: 65 feet
Maximum Depth: 345 feet

Record Count:24

UTMNAD83 Radius Search (in meters):

Easting (X): 607857.43

Northing (Y): 3615025.28

Radius: 10000

*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.

5/13/20 8:22 AM

Eddy Area, New Mexico

KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4t
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 70 percent
Stegall and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 3 inches: loam
H2 - 3 to 9 inches: loam
H3 - 9 to 60 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 8 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very 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: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: D
Ecological site: Shallow (R042XC025NM)
Hydric soil rating: No

Description of Stegall

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 28 inches: clay loam
H3 - 28 to 32 inches: indurated
H4 - 32 to 60 inches: variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 90 percent
Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 5 percent
Ecological site: Shallow Sandy (R042XC002NM)
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

32°40'18.60"N



Released by FEMA on 6/21/2020 at 10:39:58 AM

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

Legend

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
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OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with 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)
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OTHER AREAS	No SCREEN Area of Minimal Flood Hazard (Zone X) Effective LOMRS
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Coastal Transect Baseline Profile Baseline Hydrographic Feature
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MAP PANELS	Digital Data Available No Digital Data Available Unmapped
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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 5/13/2020 at 10:39:58 AM 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 unnumbered areas cannot be used for regulatory purposes.

USGS The National Map: Orthoimagery, Data refreshed April 2019.

0 250 500 1,000 1,500 2,000 Feet

32°39'48.31"N

103°50'40.33"W

Eddy County
350120

AREA OF MINIMAL FLOOD HAZARD

Zone X

3501500675D

6/4/2010

Not Printed



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	NRM2014569455
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-748-6195
Contact email Wesley.Mathews@devon.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy	

Location of Release Source

Latitude 32.6676 Longitude -103.8497
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bootes 15 Fed Com 1H	Site Type Oil
Date Release Discovered 5/10/2020	API# (if applicable) 30-015-40407

Unit Letter	Section	Township	Range	County
A	15	19S	31E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10.79 BBLS	Volume Recovered (bbls) 3 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 21.44 BBLS	Volume Recovered (bbls) 2 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 Fluid released from stuffing box on the well. Some fluid ran off pad.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
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? This is considered a major release because it is over 25 BBLs.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given by email to Deborah McKinne, Robert Hamlet, Jim Griswold, Mike Bratcher, and Victoria Venegas from Wesley Mathews on 5/11/2020.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The 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: <u>Kendra DeHoyos</u> Signature: <u>Kendra DeHoyos</u> email: <u>Kendra.DeHoyos@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>5/22/2020</u> Telephone: <u>575-748-0167</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>5/24/2020</u>	

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	166 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

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

Printed Name: Brandon Sinclair

Title: Environmental Project Manager

Signature: Brandon Sinclair

Date: 12-3-2020

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Incident ID	NRM2014569455
District RP	
Facility ID	30-015-40407
Application ID	

Remediation Plan

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

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


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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Brandon Sinclair

Title: Environmental Project Manager

Signature: 

Date: 12-3-2020


email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: Chad Hensley Date: 03/1/2021

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

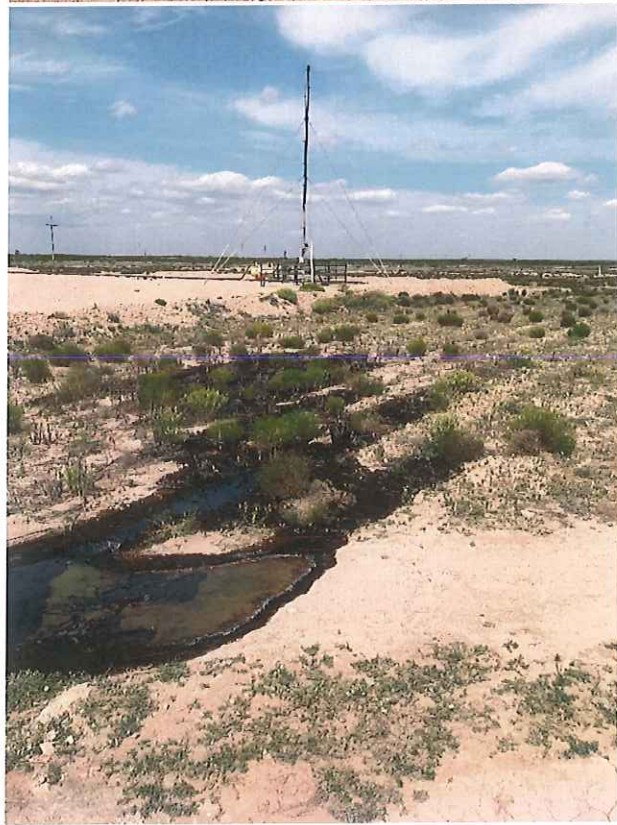
Signature: 

Date: 03/01/2021



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION











APPENDIX V

LABORATORY DATA



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

June 05, 2020

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

RE: Bootes 15 Fed Com 1H

OrderNo.: 2006054

Dear David Adkins:

Hall Environmental Analysis Laboratory received 32 sample(s) on 6/2/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:23:00 AM

Lab ID: 2006054-001

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 7:19:08 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3200	190		mg/Kg	20	6/2/2020 1:42:51 PM	52815
Motor Oil Range Organics (MRO)	1600	960		mg/Kg	20	6/2/2020 1:42:51 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	20	6/2/2020 1:42:51 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1500	21		mg/Kg	5	6/2/2020 12:01:16 PM	G69333
Surr: BFB	1630	66.6-105	S	%Rec	5	6/2/2020 12:01:16 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	4.6	0.10		mg/Kg	5	6/2/2020 12:01:16 PM	B69333
Toluene	68	2.1		mg/Kg	50	6/2/2020 9:03:16 PM	B69333
Ethylbenzene	58	2.1		mg/Kg	50	6/2/2020 9:03:16 PM	B69333
Xylenes, Total	80	4.2		mg/Kg	50	6/2/2020 9:03:16 PM	B69333
Surr: 4-Bromofluorobenzene	132	80-120	S	%Rec	50	6/2/2020 9:03:16 PM	B69333

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

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

Page 1 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:23:00 AM

Lab ID: 2006054-002

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 7:56:21 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	150	9.9		mg/Kg	1	6/2/2020 12:39:51 PM	52815
Motor Oil Range Organics (MRO)	83	50		mg/Kg	1	6/2/2020 12:39:51 PM	52815
Surr: DNOP	95.0	55.1-146		%Rec	1	6/2/2020 12:39:51 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.8	4.2		mg/Kg	1	6/2/2020 12:48:33 PM	G69333
Surr: BFB	145	66.6-105	S	%Rec	1	6/2/2020 12:48:33 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.023	0.021		mg/Kg	1	6/2/2020 12:48:33 PM	B69333
Toluene	0.087	0.042		mg/Kg	1	6/2/2020 12:48:33 PM	B69333
Ethylbenzene	0.14	0.042		mg/Kg	1	6/2/2020 12:48:33 PM	B69333
Xylenes, Total	0.18	0.084		mg/Kg	1	6/2/2020 12:48:33 PM	B69333
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	6/2/2020 12:48:33 PM	B69333

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 2 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:23:00 AM

Lab ID: 2006054-003

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 8:33:35 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2020 12:16:00 PM	52815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 12:16:00 PM	52815
Surr: DNOP	92.2	55.1-146		%Rec	1	6/2/2020 12:16:00 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/2/2020 1:12:13 PM	G69333
Surr: BFB	82.9	66.6-105		%Rec	1	6/2/2020 1:12:13 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/2/2020 1:12:13 PM	B69333
Toluene	ND	0.047		mg/Kg	1	6/2/2020 1:12:13 PM	B69333
Ethylbenzene	ND	0.047		mg/Kg	1	6/2/2020 1:12:13 PM	B69333
Xylenes, Total	ND	0.094		mg/Kg	1	6/2/2020 1:12:13 PM	B69333
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/2/2020 1:12:13 PM	B69333

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

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

Page 3 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-1 4' R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:23:00 AM

Lab ID: 2006054-004

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 8:46:00 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	19	9.7		mg/Kg	1	6/2/2020 12:19:32 PM	52815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2020 12:19:32 PM	52815
Surr: DNOP	98.0	55.1-146		%Rec	1	6/2/2020 12:19:32 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/2/2020 1:35:50 PM	G69333
Surr: BFB	89.8	66.6-105		%Rec	1	6/2/2020 1:35:50 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/2/2020 1:35:50 PM	B69333
Toluene	ND	0.036		mg/Kg	1	6/2/2020 1:35:50 PM	B69333
Ethylbenzene	0.037	0.036		mg/Kg	1	6/2/2020 1:35:50 PM	B69333
Xylenes, Total	ND	0.072		mg/Kg	1	6/2/2020 1:35:50 PM	B69333
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/2/2020 1:35:50 PM	B69333

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

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

Page 4 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-2 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:47:00 AM

Lab ID: 2006054-005

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	61	60		mg/Kg	20	6/2/2020 9:23:14 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1600	99		mg/Kg	10	6/2/2020 2:06:43 PM	52815
Motor Oil Range Organics (MRO)	860	500		mg/Kg	10	6/2/2020 2:06:43 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	10	6/2/2020 2:06:43 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	150	21		mg/Kg	5	6/2/2020 1:59:34 PM	G69333
Surr: BFB	393	66.6-105	S	%Rec	5	6/2/2020 1:59:34 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	6/2/2020 1:59:34 PM	B69333
Toluene	0.95	0.21		mg/Kg	5	6/2/2020 1:59:34 PM	B69333
Ethylbenzene	5.3	0.21		mg/Kg	5	6/2/2020 1:59:34 PM	B69333
Xylenes, Total	10	0.41		mg/Kg	5	6/2/2020 1:59:34 PM	B69333
Surr: 4-Bromofluorobenzene	158	80-120	S	%Rec	5	6/2/2020 1:59:34 PM	B69333

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

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

Page 5 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-2 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:47:00 AM

Lab ID: 2006054-006

Matrix: MEOH (SOIL) Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	6/2/2020 9:35:39 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/2/2020 12:43:47 PM	52815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2020 12:43:47 PM	52815
Surr: DNOP	86.9	55.1-146		%Rec	1	6/2/2020 12:43:47 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/2/2020 2:23:07 PM	G69333
Surr: BFB	80.0	66.6-105		%Rec	1	6/2/2020 2:23:07 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/2/2020 2:23:07 PM	B69333
Toluene	ND	0.048		mg/Kg	1	6/2/2020 2:23:07 PM	B69333
Ethylbenzene	ND	0.048		mg/Kg	1	6/2/2020 2:23:07 PM	B69333
Xylenes, Total	ND	0.095		mg/Kg	1	6/2/2020 2:23:07 PM	B69333
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/2/2020 2:23:07 PM	B69333

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 6 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-2 3'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 9:47:00 AM

Lab ID: 2006054-007

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 9:48:04 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 1:07:53 PM	52815
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 1:07:53 PM	52815
Surr: DNOP	83.5	55.1-146		%Rec	1	6/2/2020 1:07:53 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/2/2020 2:46:38 PM	G69333
Surr: BFB	79.5	66.6-105		%Rec	1	6/2/2020 2:46:38 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	6/2/2020 2:46:38 PM	B69333
Toluene	ND	0.044		mg/Kg	1	6/2/2020 2:46:38 PM	B69333
Ethylbenzene	ND	0.044		mg/Kg	1	6/2/2020 2:46:38 PM	B69333
Xylenes, Total	ND	0.088		mg/Kg	1	6/2/2020 2:46:38 PM	B69333
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	6/2/2020 2:46:38 PM	B69333

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 7 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-3 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:00:00 AM

Lab ID: 2006054-008

Matrix: MEOH (SOIL) Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	6/2/2020 10:00:28 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3500	190		mg/Kg	20	6/2/2020 2:30:45 PM	52815
Motor Oil Range Organics (MRO)	1500	960		mg/Kg	20	6/2/2020 2:30:45 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	20	6/2/2020 2:30:45 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	420	20		mg/Kg	5	6/2/2020 3:10:09 PM	G69333
Surr: BFB	623	66.6-105	S	%Rec	5	6/2/2020 3:10:09 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.65	0.10		mg/Kg	5	6/2/2020 3:10:09 PM	B69333
Toluene	17	0.20		mg/Kg	5	6/2/2020 3:10:09 PM	B69333
Ethylbenzene	18	0.20		mg/Kg	5	6/2/2020 3:10:09 PM	B69333
Xylenes, Total	26	0.40		mg/Kg	5	6/2/2020 3:10:09 PM	B69333
Surr: 4-Bromofluorobenzene	208	80-120	S	%Rec	5	6/2/2020 3:10:09 PM	B69333

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 8 of 39

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2006054
Date Reported: 6/5/2020

CLIENT: Talon Artesia
Project: Bootes 15 Fed Com 1H
Lab ID: 2006054-009
Client Sample ID: B-3 2'
Collection Date: 5/29/2020 10:00:00 AM
Matrix: MEOH (SOIL) Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 10:12:53 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3700	190		mg/Kg	20	6/2/2020 1:45:54 PM	52815
Motor Oil Range Organics (MRO)	1400	970		mg/Kg	20	6/2/2020 1:45:54 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	20	6/2/2020 1:45:54 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1300	21		mg/Kg	5	6/2/2020 5:55:13 PM	G69333
Surr: BFB	1440	66.6-105	S	%Rec	5	6/2/2020 5:55:13 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3.3	0.10		mg/Kg	5	6/2/2020 5:55:13 PM	B69333
Toluene	66	2.1		mg/Kg	50	6/3/2020 8:29:25 AM	B69333
Ethylbenzene	59	2.1		mg/Kg	50	6/3/2020 8:29:25 AM	B69333
Xylenes, Total	80	4.2		mg/Kg	50	6/3/2020 8:29:25 AM	B69333
Surr: 4-Bromofluorobenzene	133	80-120	S	%Rec	50	6/3/2020 8:29:25 AM	B69333

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 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-3 3'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:00:00 AM

Lab ID: 2006054-010

Matrix: MEOH (SOIL) Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 10:25:18 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	920	98		mg/Kg	10	6/2/2020 2:10:15 PM	52815
Motor Oil Range Organics (MRO)	610	490		mg/Kg	10	6/2/2020 2:10:15 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	10	6/2/2020 2:10:15 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	6/2/2020 6:18:41 PM	G69333
Surr: BFB	112	66.6-105	S	%Rec	1	6/2/2020 6:18:41 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	6/2/2020 6:18:41 PM	B69333
Toluene	0.061	0.052		mg/Kg	1	6/2/2020 6:18:41 PM	B69333
Ethylbenzene	0.095	0.052		mg/Kg	1	6/2/2020 6:18:41 PM	B69333
Xylenes, Total	0.20	0.10		mg/Kg	1	6/2/2020 6:18:41 PM	B69333
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/2/2020 6:18:41 PM	B69333

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 10 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-4 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:15:00 AM

Lab ID: 2006054-011

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 10:37:42 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 2:34:19 PM	52815
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 2:34:19 PM	52815
Surr: DNOP	90.5	55.1-146		%Rec	1	6/2/2020 2:34:19 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	6/2/2020 6:42:16 PM	G69333
Surr: BFB	80.5	66.6-105		%Rec	1	6/2/2020 6:42:16 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg	1	6/2/2020 6:42:16 PM	B69333
Toluene	ND	0.053		mg/Kg	1	6/2/2020 6:42:16 PM	B69333
Ethylbenzene	ND	0.053		mg/Kg	1	6/2/2020 6:42:16 PM	B69333
Xylenes, Total	ND	0.11		mg/Kg	1	6/2/2020 6:42:16 PM	B69333
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	6/2/2020 6:42:16 PM	B69333

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 11 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-4 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:15:00 AM

Lab ID: 2006054-012

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	61	60		mg/Kg	20	6/2/2020 10:50:06 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 2:58:30 PM	52815
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 2:58:30 PM	52815
Surr: DNOP	91.4	55.1-146		%Rec	1	6/2/2020 2:58:30 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/2/2020 7:05:41 PM	G69333
Surr: BFB	83.3	66.6-105		%Rec	1	6/2/2020 7:05:41 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	6/2/2020 7:05:41 PM	B69333
Toluene	ND	0.039		mg/Kg	1	6/2/2020 7:05:41 PM	B69333
Ethylbenzene	ND	0.039		mg/Kg	1	6/2/2020 7:05:41 PM	B69333
Xylenes, Total	ND	0.079		mg/Kg	1	6/2/2020 7:05:41 PM	B69333
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/2/2020 7:05:41 PM	B69333

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 12 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-4 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:15:00 AM

Lab ID: 2006054-013

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 11:02:30 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 3:22:40 PM	52815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 3:22:40 PM	52815
Surr: DNOP	92.3	55.1-146		%Rec	1	6/2/2020 3:22:40 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	6/2/2020 7:29:11 PM	G69333
Surr: BFB	82.1	66.6-105		%Rec	1	6/2/2020 7:29:11 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	6/2/2020 7:29:11 PM	B69333
Toluene	ND	0.052		mg/Kg	1	6/2/2020 7:29:11 PM	B69333
Ethylbenzene	ND	0.052		mg/Kg	1	6/2/2020 7:29:11 PM	B69333
Xylenes, Total	ND	0.10		mg/Kg	1	6/2/2020 7:29:11 PM	B69333
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/2/2020 7:29:11 PM	B69333

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 13 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-4 4'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:15:00 AM

Lab ID: 2006054-014

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/2/2020 11:14:54 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/2/2020 4:11:10 PM	52815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2020 4:11:10 PM	52815
Surr: DNOP	93.7	55.1-146		%Rec	1	6/2/2020 4:11:10 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/2/2020 7:52:39 PM	G69333
Surr: BFB	80.7	66.6-105		%Rec	1	6/2/2020 7:52:39 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	6/2/2020 7:52:39 PM	B69333
Toluene	ND	0.044		mg/Kg	1	6/2/2020 7:52:39 PM	B69333
Ethylbenzene	ND	0.044		mg/Kg	1	6/2/2020 7:52:39 PM	B69333
Xylenes, Total	ND	0.088		mg/Kg	1	6/2/2020 7:52:39 PM	B69333
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	6/2/2020 7:52:39 PM	B69333

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 14 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-5 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:28:00 AM

Lab ID: 2006054-015

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5200	300		mg/Kg	100	6/3/2020 7:43:43 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	16	10		mg/Kg	1	6/2/2020 2:54:49 PM	52815
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 2:54:49 PM	52815
Surr: DNOP	89.2	55.1-146		%Rec	1	6/2/2020 2:54:49 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	6/2/2020 8:16:14 PM	G69333
Surr: BFB	79.4	66.6-105		%Rec	1	6/2/2020 8:16:14 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/2/2020 8:16:14 PM	B69333
Toluene	ND	0.041		mg/Kg	1	6/2/2020 8:16:14 PM	B69333
Ethylbenzene	ND	0.041		mg/Kg	1	6/2/2020 8:16:14 PM	B69333
Xylenes, Total	ND	0.083		mg/Kg	1	6/2/2020 8:16:14 PM	B69333
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	6/2/2020 8:16:14 PM	B69333

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 15 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-5 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:28:00 AM

Lab ID: 2006054-016

Matrix: MEOH (SOIL)

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4000	150		mg/Kg	50	6/3/2020 7:56:08 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/2/2020 3:19:04 PM	52815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 3:19:04 PM	52815
Surr: DNOP	89.6	55.1-146		%Rec	1	6/2/2020 3:19:04 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/2/2020 8:39:43 PM	G69333
Surr: BFB	80.2	66.6-105		%Rec	1	6/2/2020 8:39:43 PM	G69333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	6/2/2020 8:39:43 PM	B69333
Toluene	ND	0.044		mg/Kg	1	6/2/2020 8:39:43 PM	B69333
Ethylbenzene	ND	0.044		mg/Kg	1	6/2/2020 8:39:43 PM	B69333
Xylenes, Total	ND	0.088		mg/Kg	1	6/2/2020 8:39:43 PM	B69333
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	6/2/2020 8:39:43 PM	B69333

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

Qualifiers:

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

Page 16 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-5 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:28:00 AM

Lab ID: 2006054-017

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4300	150		mg/Kg	50	6/3/2020 8:08:33 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 4:35:20 PM	52815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 4:35:20 PM	52815
Surr: DNOP	89.9	55.1-146		%Rec	1	6/2/2020 4:35:20 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2020 8:53:06 AM	52830
Surr: BFB	82.6	66.6-105		%Rec	1	6/3/2020 8:53:06 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 8:53:06 AM	52830
Toluene	ND	0.046		mg/Kg	1	6/3/2020 8:53:06 AM	52830
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2020 8:53:06 AM	52830
Xylenes, Total	ND	0.093		mg/Kg	1	6/3/2020 8:53:06 AM	52830
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/3/2020 8:53:06 AM	52830

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 17 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-5 4'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 10:28:00 AM

Lab ID: 2006054-018

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3500	150		mg/Kg	50	6/3/2020 8:20:57 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/2/2020 4:59:33 PM	52815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2020 4:59:33 PM	52815
Surr: DNOP	95.9	55.1-146		%Rec	1	6/2/2020 4:59:33 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2020 9:16:43 AM	52830
Surr: BFB	82.9	66.6-105		%Rec	1	6/3/2020 9:16:43 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 9:16:43 AM	52830
Toluene	ND	0.048		mg/Kg	1	6/3/2020 9:16:43 AM	52830
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2020 9:16:43 AM	52830
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2020 9:16:43 AM	52830
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/3/2020 9:16:43 AM	52830

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 18 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-6 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:07:00 AM

Lab ID: 2006054-019

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3800	150		mg/Kg	50	6/3/2020 8:33:21 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	2400	98		mg/Kg	10	6/2/2020 5:24:16 PM	52815
Motor Oil Range Organics (MRO)	1500	490		mg/Kg	10	6/2/2020 5:24:16 PM	52815
Surr: DNOP	0	55.1-146	S	%Rec	10	6/2/2020 5:24:16 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	69	24		mg/Kg	5	6/3/2020 9:40:23 AM	52830
Surr: BFB	140	66.6-105	S	%Rec	5	6/3/2020 9:40:23 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	6/3/2020 9:40:23 AM	52830
Toluene	0.40	0.24		mg/Kg	5	6/3/2020 9:40:23 AM	52830
Ethylbenzene	2.9	0.24		mg/Kg	5	6/3/2020 9:40:23 AM	52830
Xylenes, Total	14	0.48		mg/Kg	5	6/3/2020 9:40:23 AM	52830
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	5	6/3/2020 9:40:23 AM	52830

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

Qualifiers:

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

Page 19 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-6 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:07:00 AM

Lab ID: 2006054-020

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	970	60		mg/Kg	20	6/3/2020 12:54:11 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2020 5:48:27 PM	52815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 5:48:27 PM	52815
Surr: DNOP	91.5	55.1-146		%Rec	1	6/2/2020 5:48:27 PM	52815
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2020 10:04:02 AM	52830
Surr: BFB	83.3	66.6-105		%Rec	1	6/3/2020 10:04:02 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 10:04:02 AM	52830
Toluene	ND	0.048		mg/Kg	1	6/3/2020 10:04:02 AM	52830
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2020 10:04:02 AM	52830
Xylenes, Total	0.20	0.097		mg/Kg	1	6/3/2020 10:04:02 AM	52830
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/3/2020 10:04:02 AM	52830

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 20 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-6 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:07:00 AM

Lab ID: 2006054-021

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	550	60		mg/Kg	20	6/3/2020 2:58:17 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2020 6:12:58 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 6:12:58 PM	52816
Surr: DNOP	98.3	55.1-146		%Rec	1	6/2/2020 6:12:58 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 10:27:42 AM	52830
Surr: BFB	81.8	66.6-105		%Rec	1	6/3/2020 10:27:42 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/3/2020 10:27:42 AM	52830
Toluene	ND	0.049		mg/Kg	1	6/3/2020 10:27:42 AM	52830
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 10:27:42 AM	52830
Xylenes, Total	0.14	0.099		mg/Kg	1	6/3/2020 10:27:42 AM	52830
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/3/2020 10:27:42 AM	52830

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 21 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-6 4'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:07:00 AM

Lab ID: 2006054-022

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	360	60		mg/Kg	20	6/3/2020 3:10:41 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 7:26:14 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 7:26:14 PM	52816
Surr: DNOP	95.9	55.1-146		%Rec	1	6/2/2020 7:26:14 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 10:51:22 AM	52830
Surr: BFB	82.1	66.6-105		%Rec	1	6/3/2020 10:51:22 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 10:51:22 AM	52830
Toluene	ND	0.049		mg/Kg	1	6/3/2020 10:51:22 AM	52830
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 10:51:22 AM	52830
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2020 10:51:22 AM	52830
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/3/2020 10:51:22 AM	52830

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 22 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-7 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:27:00 AM

Lab ID: 2006054-023

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	390	60		mg/Kg	20	6/3/2020 3:23:06 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/2/2020 7:50:46 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 7:50:46 PM	52816
Surr: DNOP	91.5	55.1-146		%Rec	1	6/2/2020 7:50:46 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2020 11:15:00 AM	52830
Surr: BFB	82.4	66.6-105		%Rec	1	6/3/2020 11:15:00 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 11:15:00 AM	52830
Toluene	ND	0.048		mg/Kg	1	6/3/2020 11:15:00 AM	52830
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2020 11:15:00 AM	52830
Xylenes, Total	ND	0.096		mg/Kg	1	6/3/2020 11:15:00 AM	52830
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/3/2020 11:15:00 AM	52830

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 23 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-7 2'

Project: Bootes 15 Fed Com IH

Collection Date: 5/29/2020 11:27:00 AM

Lab ID: 2006054-024

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	230	60		mg/Kg	20	6/3/2020 3:35:31 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2020 8:15:10 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 8:15:10 PM	52816
Surr: DNOP	101	55.1-146		%Rec	1	6/2/2020 8:15:10 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 11:38:46 AM	52830
Surr: BFB	85.9	66.6-105		%Rec	1	6/3/2020 11:38:46 AM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 11:38:46 AM	52830
Toluene	ND	0.049		mg/Kg	1	6/3/2020 11:38:46 AM	52830
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 11:38:46 AM	52830
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2020 11:38:46 AM	52830
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/3/2020 11:38:46 AM	52830

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 24 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-7 3'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 11:27:00 AM

Lab ID: 2006054-025

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	990	60		mg/Kg	20	6/3/2020 3:47:55 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	6/2/2020 8:39:38 PM	52816
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 8:39:38 PM	52816
Surr: DNOP	91.5	55.1-146		%Rec	1	6/2/2020 8:39:38 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 12:02:20 PM	52830
Surr: BFB	83.7	66.6-105		%Rec	1	6/3/2020 12:02:20 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 12:02:20 PM	52830
Toluene	ND	0.049		mg/Kg	1	6/3/2020 12:02:20 PM	52830
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 12:02:20 PM	52830
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2020 12:02:20 PM	52830
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/3/2020 12:02:20 PM	52830

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 25 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-8 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 12:37:00 PM

Lab ID: 2006054-026

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3100	150		mg/Kg	50	6/3/2020 8:45:46 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	3900	97		mg/Kg	10	6/2/2020 9:03:51 PM	52816
Motor Oil Range Organics (MRO)	2100	480		mg/Kg	10	6/2/2020 9:03:51 PM	52816
Surr: DNOP	0	55.1-146	S	%Rec	10	6/2/2020 9:03:51 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	340	23		mg/Kg	5	6/3/2020 12:49:12 PM	52830
Surr: BFB	343	66.6-105	S	%Rec	5	6/3/2020 12:49:12 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.14	0.12		mg/Kg	5	6/3/2020 12:49:12 PM	52830
Toluene	4.3	0.23		mg/Kg	5	6/3/2020 12:49:12 PM	52830
Ethylbenzene	17	0.23		mg/Kg	5	6/3/2020 12:49:12 PM	52830
Xylenes, Total	71	4.6		mg/Kg	50	6/3/2020 10:14:12 PM	52830
Surr: 4-Bromofluorobenzene	157	80-120	S	%Rec	5	6/3/2020 12:49:12 PM	52830

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

Qualifiers:	<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> 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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Page 26 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-8 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 12:37:00 PM

Lab ID: 2006054-027

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	98	60		mg/Kg	20	6/3/2020 4:37:33 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/2/2020 9:28:17 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 9:28:17 PM	52816
Surr: DNOP	76.4	55.1-146		%Rec	1	6/2/2020 9:28:17 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	5.1	4.9		mg/Kg	1	6/3/2020 1:12:46 PM	52830
Surr: BFB	97.2	66.6-105		%Rec	1	6/3/2020 1:12:46 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.032	0.024		mg/Kg	1	6/3/2020 1:12:46 PM	52830
Toluene	0.10	0.049		mg/Kg	1	6/3/2020 1:12:46 PM	52830
Ethylbenzene	0.26	0.049		mg/Kg	1	6/3/2020 1:12:46 PM	52830
Xylenes, Total	1.4	0.098		mg/Kg	1	6/3/2020 1:12:46 PM	52830
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	6/3/2020 1:12:46 PM	52830

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 27 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-8 3'

Project: Bootes 15 Fed Com IH

Collection Date: 5/29/2020 12:37:00 PM

Lab ID: 2006054-028

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	6/3/2020 4:49:58 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	60	10		mg/Kg	1	6/2/2020 9:52:37 PM	52816
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/2/2020 9:52:37 PM	52816
Surr: DNOP	82.6	55.1-146		%Rec	1	6/2/2020 9:52:37 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	5.7	4.8		mg/Kg	1	6/3/2020 1:36:28 PM	52830
Surr: BFB	95.2	66.6-105		%Rec	1	6/3/2020 1:36:28 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.045	0.024		mg/Kg	1	6/3/2020 1:36:28 PM	52830
Toluene	0.13	0.048		mg/Kg	1	6/3/2020 1:36:28 PM	52830
Ethylbenzene	0.29	0.048		mg/Kg	1	6/3/2020 1:36:28 PM	52830
Xylenes, Total	1.4	0.097		mg/Kg	1	6/3/2020 1:36:28 PM	52830
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/3/2020 1:36:28 PM	52830

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 28 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-8 4'R

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 12:37:00 PM

Lab ID: 2006054-029

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	72	60		mg/Kg	20	6/3/2020 5:02:23 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	71	9.7		mg/Kg	1	6/2/2020 10:17:04 PM	52816
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	6/2/2020 10:17:04 PM	52816
Surr: DNOP	83.5	55.1-146		%Rec	1	6/2/2020 10:17:04 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 2:00:02 PM	52830
Surr: BFB	88.0	66.6-105		%Rec	1	6/3/2020 2:00:02 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/3/2020 2:00:02 PM	52830
Toluene	ND	0.049		mg/Kg	1	6/3/2020 2:00:02 PM	52830
Ethylbenzene	0.058	0.049		mg/Kg	1	6/3/2020 2:00:02 PM	52830
Xylenes, Total	0.31	0.099		mg/Kg	1	6/3/2020 2:00:02 PM	52830
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/3/2020 2:00:02 PM	52830

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 29 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-9 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 1:00:00 PM

Lab ID: 2006054-031

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3100	150		mg/Kg	50	6/3/2020 7:55:00 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	180	10		mg/Kg	1	6/2/2020 11:05:52 PM	52816
Motor Oil Range Organics (MRO)	99	50		mg/Kg	1	6/2/2020 11:05:52 PM	52816
Surr: DNOP	95.0	55.1-146		%Rec	1	6/2/2020 11:05:52 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	6.8	4.9		mg/Kg	1	6/3/2020 2:47:08 PM	52830
Surr: BFB	135	66.6-105	S	%Rec	1	6/3/2020 2:47:08 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.027	0.024		mg/Kg	1	6/3/2020 2:47:08 PM	52830
Toluene	0.097	0.049		mg/Kg	1	6/3/2020 2:47:08 PM	52830
Ethylbenzene	0.27	0.049		mg/Kg	1	6/3/2020 2:47:08 PM	52830
Xylenes, Total	1.3	0.097		mg/Kg	1	6/3/2020 2:47:08 PM	52830
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	6/3/2020 2:47:08 PM	52830

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 31 of 39

Analytical Report

Lab Order 2006054

Date Reported: 6/5/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-9 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 5/29/2020 1:00:00 PM

Lab ID: 2006054-032

Matrix: SOIL

Received Date: 6/2/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	60		mg/Kg	20	6/3/2020 5:39:37 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	58	9.8		mg/Kg	1	6/2/2020 11:30:12 PM	52816
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2020 11:30:12 PM	52816
Surr: DNOP	77.3	55.1-146		%Rec	1	6/2/2020 11:30:12 PM	52816
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 3:10:35 PM	52830
Surr: BFB	98.0	66.6-105		%Rec	1	6/3/2020 3:10:35 PM	52830
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.029	0.024		mg/Kg	1	6/3/2020 3:10:35 PM	52830
Toluene	0.077	0.049		mg/Kg	1	6/3/2020 3:10:35 PM	52830
Ethylbenzene	0.18	0.049		mg/Kg	1	6/3/2020 3:10:35 PM	52830
Xylenes, Total	0.87	0.097		mg/Kg	1	6/3/2020 3:10:35 PM	52830
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/3/2020 3:10:35 PM	52830

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 32 of 39

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia
Project: Bootes 15 Fed Com 1H

Sample ID: MB-52833	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 52833	RunNo: 69353
Prep Date: 6/2/2020	Analysis Date: 6/2/2020	SeqNo: 2405269 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-52833	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 52833	RunNo: 69353
Prep Date: 6/2/2020	Analysis Date: 6/2/2020	SeqNo: 2405270 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.3 90 110

Sample ID: MB-52834	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 52834	RunNo: 69353
Prep Date: 6/2/2020	Analysis Date: 6/3/2020	SeqNo: 2405299 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-52834	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 52834	RunNo: 69353
Prep Date: 6/2/2020	Analysis Date: 6/3/2020	SeqNo: 2405300 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.6 90 110

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

WO#: 2006054

Hall Environmental Analysis Laboratory, Inc.

05-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: MB-52816	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 52816		RunNo: 69321							
Prep Date: 6/2/2020	Analysis Date: 6/2/2020		SeqNo: 2403981		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	55.1	146			

Sample ID: LCS-52816	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 52816			RunNo: 69321						
Prep Date: 6/2/2020	Analysis Date: 6/2/2020			SeqNo: 2403982		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	70	130			
Surr: DNOP	4.7		5.000		93.6	55.1	146			

Sample ID: MB-52815	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52815	RunNo: 69320								
Prep Date: 6/2/2020	Analysis Date: 6/2/2020	SeqNo: 2404032 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	9.5		10.00		94.5	55.1	146			

Sample ID: LCS-52815	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 52815			RunNo: 69320						
Prep Date: 6/2/2020	Analysis Date: 6/2/2020			SeqNo: 2404033		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.6	70	130			
Surr: DNOP	4.1		5.000		82.4	55.1	146			

Sample ID: 2006054-021AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: B-6 3'	Batch ID: 52816		RunNo: 69321							
Prep Date: 6/2/2020	Analysis Date: 6/2/2020		SeqNo: 2404572		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	49.75	3.525	90.2	47.4	136			
Surr: DNOP	4.5		4.975		91.3	55.1	146			

Qualifiers:

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

Page 34 of 39

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: 2006054-021AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: B-6 3'		Batch ID: 52816		RunNo: 69321						
Prep Date: 6/2/2020		Analysis Date: 6/2/2020		SeqNo: 2404573		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	49.02	3.525	93.6	47.4	136	2.04	43.4	
Surr: DNOP	4.7		4.902		96.0	55.1	146	0	0	

Qualifiers:

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

Page 35 of 39

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G69333	RunNo: 69333								
Prep Date:	Analysis Date: 6/2/2020	SeqNo: 2404583 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	820		1000		81.6	66.6	105			

Sample ID: 2.5ug gro lcsb	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G69333	RunNo: 69333								
Prep Date:	Analysis Date: 6/2/2020	SeqNo: 2404584 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	80	120			
Surr: BFB	930		1000		92.5	66.6	105			

Sample ID: mb-52830	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 52830	RunNo: 69340								
Prep Date: 6/2/2020	Analysis Date: 6/3/2020	SeqNo: 2405514 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	830		1000		82.5	66.6	105			

Sample ID: 2006054-003ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: B-1 3'	Batch ID: G69333	RunNo: 69340								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406060 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.56	0	90.2	80	120			
Surr: BFB	930		942.5		98.3	66.6	105			

Sample ID: 2006054-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: B-1 3'	Batch ID: G69333	RunNo: 69340								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406061 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.56	0	89.1	80	120	1.29	20	
Surr: BFB	990		942.5		105	66.6	105	0	0	

Sample ID: lcs-52830	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 52830	RunNo: 69340								
Prep Date: 6/2/2020	Analysis Date: 6/3/2020	SeqNo: 2406062 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

Page 36 of 39

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia

Project: Bootes 15 Fed Com IH

Sample ID: Ics-52830	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 52830			RunNo: 69340						
Prep Date: 6/2/2020	Analysis Date: 6/3/2020			SeqNo: 2406062		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.1	80	120			
Surr: BFB	960		1000		96.4	66.6	105			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia
Project: Bootes 15 Fed Com IH

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B69333	RunNo: 69333								
Prep Date:	Analysis Date: 6/2/2020	SeqNo: 2404606 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.5	80	120			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B69333	RunNo: 69333								
Prep Date:	Analysis Date: 6/2/2020	SeqNo: 2404607 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.86	0.050	1.000	0	86.5	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: mb-52830	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 52830	RunNo: 69340								
Prep Date: 6/2/2020	Analysis Date: 6/3/2020	SeqNo: 2405532 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 2006054-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: B-1 2'	Batch ID: B69333	RunNo: 69340								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406071 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.83	0.021	0.8446	0.02348	95.0	78.5	119			
Toluene	0.93	0.042	0.8446	0.08708	99.5	75.7	123			
Ethylbenzene	0.99	0.042	0.8446	0.1423	101	74.3	126			
Xylenes, Total	2.7	0.084	2.534	0.1780	99.0	72.9	130			
Surr: 4-Bromofluorobenzene	0.99		0.8446		117	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

Page 38 of 39

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006054

05-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: 2006054-002amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: B-1 2'		Batch ID: B69333		RunNo: 69340						
Prep Date:		Analysis Date: 6/3/2020		SeqNo: 2406072		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.021	0.8446	0.02348	94.1	78.5	119	0.904	20	
Toluene	0.94	0.042	0.8446	0.08708	101	75.7	123	1.01	20	
Ethylbenzene	1.0	0.042	0.8446	0.1423	101	74.3	126	0.543	20	
Xylenes, Total	2.7	0.084	2.534	0.1780	99.9	72.9	130	0.827	20	
Sur: 4-Bromofluorobenzene	0.99		0.8446		118	80	120	0	0	

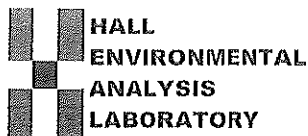
Sample ID: LCS-52830	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 52830		RunNo: 69340							
Prep Date: 6/2/2020	Analysis Date: 6/3/2020		SeqNo: 2406074				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.95	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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

Page 39 of 39



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-1107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA

Work Order Number: 2006054

RcptNo: 1

Received By: Juan Rojas

6/2/2020 9:25:00 AM

[Signature]

Completed By: Isaiah Ortiz

6/2/2020 10:03:00 AM

[Signature]

Reviewed By: DAD 6/2/20

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

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: *EM 2/6/20*

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

Chain-of-Custody Record

Client: Ts/oh LPF

Mailing Address: 408 W Texas Ave
Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#: _____

QA/QC Package: _____

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

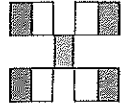
Date	Time	Matrix	Sample Name
5-29-20	09:23	50:1	B-1 0-1'
	09:23		B-1 2'
	09:23		B-1 3'
	09:23		B-1 4'R
	09:47		B-2 0-1'
	09:47		B-2 2'
	09:47		B-2 3' B-2 3'R
	10:00 05 10:00 05		B-3 0-1'
	10:00		B-3 2'
	10:00		B-3 3'R
	10:15		B-4 0-1'

Date:	11/20	Time:	0900	Relinquished by:	<i>[Signature]</i>
Date:	11/20	Time:	1800	Relinquished by:	<i>[Signature]</i>

Turn-Around Time:	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush 24 hr
Project Name:	Booster 15 Fed Com 1H	
Project #:	700794.343.01	
Project Manager:	David Adkins	
Sampler:	Brandon Sinclair	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	1	

Cooler Temp (including ch)	Container Type and #	Preservative Type	HEAL No.
2.6-6-1=2.5	402 jar	ice	-001
			-002
			-003
			-004
			-005
			-006
			-007
			-008
			-009
			-010
			-011
			-012

Received by: <i>[Signature]</i>	Via: <i>6/12/09</i>	Date: <i>6/12/09</i>	Time: <i>09:00</i>
Received by: <i>[Signature]</i>	Via: <i>6/12/09</i>	Date: <i>6/12/09</i>	Time: <i>09:00</i>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks: CC

dadkins@talonpe.com
bsincclair@talonpe.com

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave
Artesia, NM 88210

Phone #: 575-746-8768
email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☐ Standard ☒ Rush 24 hr

Project Name: Bootes 15 Fed Com 1H

Project #: 700794.343.01

Project Manager: David Addkins

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CH): 2.6-6.1 = 2.5

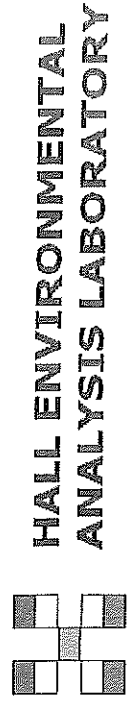
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5-29-20	10:15	soil	B-4 3'	402 jar	ice	2006054
	10:15		B-4 4'R			-013
	10:28		B-5 0-1'			-014
	10:28		B-5 2'			-015
	10:28		B-5 3'			-016
	10:28		B-5 4'R			-017
	11:07		B-6 0-1'			-018
	11:07		B-6 2'			-019
	11:07		B-6 3'			-070
	11:07		B-6 4'R			-071
	11:27		B-7 0-1'			-072
	11:27		B-7 2'			-073
	11:27		B-7 2'			-074

Date: 6/1/20 Time: 0900 Relinquished by: [Signature]

Date: 6/1/20 Time: 1000 Relinquished by: [Signature]

Received by: [Signature] Date: 6/1/20 Time: 0900

Received by: [Signature] Date: 6/1/20 Time: 0925



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"/> (C) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)

Remarks: cc
daddkins@talonlpe.com
bsinclair@talonlpe.com

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

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W Texas Ave

Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard☒ Rush 24 hr

Project Name:

Bootes 1.5 Fed Com 14

Project #:

700794, 343.01

Project Manager:

David Adkins

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFI): 2.6-6.1-2.5

Container Type and #

Preservative Type

HEAL No.

700605-4

902 jar ice

-025

-026

-027

-028

-029

-030

-031

-032

Relinquished by:

Received by:

Date

Via:

Date

Time

6/1/20 0900

Relinquished by:

Received by:

Date

Via:

Date

Time

6/1/20 1900

Relinquished by:

Received by:

Date

Via:

Date

Time

6/1/20 1900

Relinquished by:

Received by:

Date

Via:

Date

Time

6/1/20 1900

Relinquished by:

Received by:

Date

Via:

Date

Time

6/1/20 1900

Relinquished by:

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Relinquished by:

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6/1/20 1900

Relinquished by:

Received by:

Date

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Received by:

Date

Via:

Date

Time

6/1/20 1900

Relinquished by:

Received by:

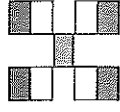
Date

Via:

Date

Time

6/1/20 1900



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

8081 Pesticides/8082 PCB's

EPA 8210 (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl⁻, Br⁻, NO₃⁻, PO₄³⁻, SO₄²⁻

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

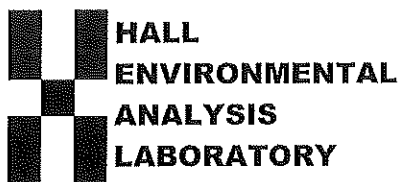
BTEX (8015D) GRO / DRO / MRO

MTBE / TMB's (8021)

Remarks: cc

daskins@talonlpe.com

bsinclair@talonlpe.com



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

June 24, 2020

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

RE: Bootes 15 Fed Com 1H

OrderNo.: 2006942

Dear David Adkins:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/18/2020 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-10 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:05:00 AM

Lab ID: 2006942-001

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	13000	600		mg/Kg	200	6/23/2020 6:08:12 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	23	4.9		mg/Kg	1	6/20/2020 4:03:28 PM	53155
Surr: BFB	101	70-130		%Rec	1	6/20/2020 4:03:28 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	19000	900		mg/Kg	100	6/19/2020 10:31:29 PM	53169
Motor Oil Range Organics (MRO)	12000	4500		mg/Kg	100	6/19/2020 10:31:29 PM	53169
Surr: DNOP	0	55.1-146	S	%Rec	100	6/19/2020 10:31:29 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	6/20/2020 4:03:28 PM	53155
Toluene	ND	0.049		mg/Kg	1	6/20/2020 4:03:28 PM	53155
Ethylbenzene	0.52	0.049		mg/Kg	1	6/20/2020 4:03:28 PM	53155
Xylenes, Total	2.8	0.098		mg/Kg	1	6/20/2020 4:03:28 PM	53155
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/20/2020 4:03:28 PM	53155
Surr: 4-Bromofluorobenzene	73.4	70-130		%Rec	1	6/20/2020 4:03:28 PM	53155
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/20/2020 4:03:28 PM	53155
Surr: Toluene-d8	106	70-130		%Rec	1	6/20/2020 4:03:28 PM	53155

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 1 of 19

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2006942
Date Reported: 6/24/2020

CLIENT: Talon Artesia
Project: Bootes 15 Fed Com 1H
Lab ID: 2006942-002
Matrix: SOIL
Client Sample ID: B-10 2'
Collection Date: 6/17/2020 11:05:00 AM
Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	290	60		mg/Kg	20	6/22/2020 1:59:35 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2020 5:58:07 PM	53155
Surr: BFB	97.6	70-130		%Rec	1	6/20/2020 5:58:07 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	180	9.8		mg/Kg	1	6/20/2020 1:03:48 PM	53169
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	6/20/2020 1:03:48 PM	53169
Surr: DNOP	122	55.1-146		%Rec	1	6/20/2020 1:03:48 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	6/20/2020 5:58:07 PM	53155
Toluene	ND	0.050		mg/Kg	1	6/20/2020 5:58:07 PM	53155
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2020 5:58:07 PM	53155
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2020 5:58:07 PM	53155
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	6/20/2020 5:58:07 PM	53155
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	6/20/2020 5:58:07 PM	53155
Surr: Dibromofluoromethane	115	70-130		%Rec	1	6/20/2020 5:58:07 PM	53155
Surr: Toluene-d8	103	70-130		%Rec	1	6/20/2020 5:58:07 PM	53155

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 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-10 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:05:00 AM

Lab ID: 2006942-003

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	220	60		mg/Kg	20	6/22/2020 2:11:55 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2020 7:24:11 PM	53155
Surr: BFB	97.4	70-130		%Rec	1	6/20/2020 7:24:11 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	29	10		mg/Kg	1	6/19/2020 10:51:55 PM	53169
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2020 10:51:55 PM	53169
Surr: DNOP	97.8	55.1-146		%Rec	1	6/19/2020 10:51:55 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	6/20/2020 7:24:11 PM	53155
Toluene	ND	0.049		mg/Kg	1	6/20/2020 7:24:11 PM	53155
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2020 7:24:11 PM	53155
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2020 7:24:11 PM	53155
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/20/2020 7:24:11 PM	53155
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/20/2020 7:24:11 PM	53155
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/20/2020 7:24:11 PM	53155
Surr: Toluene-d8	108	70-130		%Rec	1	6/20/2020 7:24:11 PM	53155

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

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

Page 3 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-10 4'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:05:00 AM

Lab ID: 2006942-004

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	60		mg/Kg	20	6/22/2020 2:24:15 PM	5318
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2020 7:52:52 PM	53155
Surr: BFB	100	70-130		%Rec	1	6/20/2020 7:52:52 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	230	9.7		mg/Kg	1	6/20/2020 1:13:39 PM	53169
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	6/20/2020 1:13:39 PM	53169
Surr: DNOP	118	55.1-146		%Rec	1	6/20/2020 1:13:39 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	6/20/2020 7:52:52 PM	53155
Toluene	ND	0.049		mg/Kg	1	6/20/2020 7:52:52 PM	53155
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2020 7:52:52 PM	53155
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2020 7:52:52 PM	53155
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/20/2020 7:52:52 PM	53155
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	6/20/2020 7:52:52 PM	53155
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/20/2020 7:52:52 PM	53155
Surr: Toluene-d8	109	70-130		%Rec	1	6/20/2020 7:52:52 PM	53155

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 4 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 0-1'

Project: Bootes 15 Fed Com IH

Collection Date: 6/17/2020 11:26:00 AM

Lab ID: 2006942-005

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4200	150		mg/Kg	50	6/23/2020 6:20:37 PM	53158
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	2700	480		mg/Kg	100	6/21/2020 1:47:45 PM	53155
Surr: BFB	102	70-130		%Rec	100	6/21/2020 1:47:45 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	11000	180		mg/Kg	20	6/19/2020 11:12:23 PM	53169
Motor Oil Range Organics (MRO)	5100	920		mg/Kg	20	6/19/2020 11:12:23 PM	53169
Surr: DNOP	0	55.1-146	S	%Rec	20	6/19/2020 11:12:23 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	4.1	0.12		mg/Kg	5	6/20/2020 8:21:33 PM	53155
Toluene	99	4.8		mg/Kg	100	6/21/2020 1:47:45 PM	53155
Ethylbenzene	110	4.8		mg/Kg	100	6/21/2020 1:47:45 PM	53155
Xylenes, Total	210	9.5		mg/Kg	100	6/21/2020 1:47:45 PM	53155
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	5	6/20/2020 8:21:33 PM	53155
Surr: 4-Bromofluorobenzene	48.6	70-130	S	%Rec	5	6/20/2020 8:21:33 PM	53155
Surr: Dibromofluoromethane	101	70-130		%Rec	5	6/20/2020 8:21:33 PM	53155
Surr: Toluene-d8	115	70-130		%Rec	5	6/20/2020 8:21:33 PM	53155

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 5 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:26:00 AM

Lab ID: 2006942-006

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	220	60		mg/Kg	20	6/22/2020 3:13:39 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	13	4.9		mg/Kg	1	6/21/2020 2:16:28 PM	53155
Surr: BFB	97.8	70-130		%Rec	1	6/21/2020 2:16:28 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	290	9.6		mg/Kg	1	6/20/2020 1:33:35 PM	53169
Motor Oil Range Organics (MRO)	170	48		mg/Kg	1	6/20/2020 1:33:35 PM	53169
Surr: DNOP	125	55.1-146		%Rec	1	6/20/2020 1:33:35 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	0.029	0.024		mg/Kg	1	6/21/2020 2:16:28 PM	53155
Toluene	0.32	0.049		mg/Kg	1	6/21/2020 2:16:28 PM	53155
Ethylbenzene	0.37	0.049		mg/Kg	1	6/21/2020 2:16:28 PM	53155
Xylenes, Total	0.80	0.097		mg/Kg	1	6/21/2020 2:16:28 PM	53155
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/21/2020 2:16:28 PM	53155
Surr: 4-Bromofluorobenzene	72.3	70-130		%Rec	1	6/21/2020 2:16:28 PM	53155
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/21/2020 2:16:28 PM	53155
Surr: Toluene-d8	104	70-130		%Rec	1	6/21/2020 2:16:28 PM	53155

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

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

Page 6 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 3'R

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:26:00 AM

Lab ID: 2006942-007

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	510	60		mg/Kg	20	6/22/2020 3:26:00 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	240	4.9		mg/Kg	1	6/20/2020 9:18:45 PM	53155
Surr: BFB	111	70-130		%Rec	1	6/20/2020 9:18:45 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1500	97		mg/Kg	10	6/19/2020 11:32:49 PM	53169
Motor Oil Range Organics (MRO)	940	490		mg/Kg	10	6/19/2020 11:32:49 PM	53169
Surr: DNOP	0	55.1-146	S	%Rec	10	6/19/2020 11:32:49 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.56	0.025		mg/Kg	1	6/20/2020 9:18:45 PM	53155
Toluene	8.4	0.49		mg/Kg	10	6/21/2020 2:45:12 PM	53155
Ethylbenzene	8.3	0.49		mg/Kg	10	6/21/2020 2:45:12 PM	53155
Xylenes, Total	16	0.98		mg/Kg	10	6/21/2020 2:45:12 PM	53155
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	6/20/2020 9:18:45 PM	53155
Surr: 4-Bromofluorobenzene	51.4	70-130	S	%Rec	1	6/20/2020 9:18:45 PM	53155
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/20/2020 9:18:45 PM	53155
Surr: Toluene-d8	108	70-130		%Rec	1	6/20/2020 9:18:45 PM	53155

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 7 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:47:00 AM

Lab ID: 2006942-008

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	60		mg/Kg	20	6/22/2020 3:38:21 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	4300	460		mg/Kg	100	6/21/2020 3:13:58 PM	53155
Surr: BFB	101	70-130		%Rec	100	6/21/2020 3:13:58 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	21000	480		mg/Kg	50	6/19/2020 11:43:02 PM	53169
Motor Oil Range Organics (MRO)	9100	2400		mg/Kg	50	6/19/2020 11:43:02 PM	53169
Surr: DNOP	0	55.1-146	S	%Rec	50	6/19/2020 11:43:02 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	31	2.3		mg/Kg	100	6/21/2020 3:13:58 PM	53155
Toluene	220	4.6		mg/Kg	100	6/21/2020 3:13:58 PM	53155
Ethylbenzene	170	4.6		mg/Kg	100	6/21/2020 3:13:58 PM	53155
Xylenes, Total	330	9.3		mg/Kg	100	6/21/2020 3:13:58 PM	53155
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	100	6/21/2020 3:13:58 PM	53155
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	100	6/21/2020 3:13:58 PM	53155
Surr: Dibromofluoromethane	103	70-130		%Rec	100	6/21/2020 3:13:58 PM	53155
Surr: Toluene-d8	108	70-130		%Rec	100	6/21/2020 3:13:58 PM	53155

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

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

Page 8 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:47:00 AM

Lab ID: 2006942-009

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	63	60		mg/Kg	20	6/22/2020 3:50:41 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	2800	490		mg/Kg	100	6/21/2020 3:42:44 PM	53155
Surr: BFB	100	70-130		%Rec	100	6/21/2020 3:42:44 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	11000	460		mg/Kg	50	6/19/2020 11:53:11 PM	53169
Motor Oil Range Organics (MRO)	5200	2300		mg/Kg	50	6/19/2020 11:53:11 PM	53169
Surr: DNOP	0	55.1-146	S	%Rec	50	6/19/2020 11:53:11 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	24	2.5		mg/Kg	100	6/21/2020 3:42:44 PM	53155
Toluene	150	4.9		mg/Kg	100	6/21/2020 3:42:44 PM	53155
Ethylbenzene	100	4.9		mg/Kg	100	6/21/2020 3:42:44 PM	53155
Xylenes, Total	170	9.8		mg/Kg	100	6/21/2020 3:42:44 PM	53155
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	100	6/21/2020 3:42:44 PM	53155
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	100	6/21/2020 3:42:44 PM	53155
Surr: Dibromofluoromethane	103	70-130		%Rec	100	6/21/2020 3:42:44 PM	53155
Surr: Toluene-d8	106	70-130		%Rec	100	6/21/2020 3:42:44 PM	53155

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

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

Page 9 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 3'

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 11:47:00 AM

Lab ID: 2006942-010

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/22/2020 4:03:01 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	14	4.7		mg/Kg	1	6/21/2020 4:11:31 PM	53155
Surr: BFB	107	70-130		%Rec	1	6/21/2020 4:11:31 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	640	92		mg/Kg	10	6/20/2020 12:03:17 AM	53169
Motor Oil Range Organics (MRO)	490	460		mg/Kg	10	6/20/2020 12:03:17 AM	53169
Surr: DNOP	0	55.1-146	S	%Rec	10	6/20/2020 12:03:17 AM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	0.12	0.023		mg/Kg	1	6/21/2020 4:11:31 PM	53155
Toluene	0.49	0.047		mg/Kg	1	6/21/2020 4:11:31 PM	53155
Ethylbenzene	0.33	0.047		mg/Kg	1	6/21/2020 4:11:31 PM	53155
Xylenes, Total	0.72	0.094		mg/Kg	1	6/21/2020 4:11:31 PM	53155
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/21/2020 4:11:31 PM	53155
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	6/21/2020 4:11:31 PM	53155
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/21/2020 4:11:31 PM	53155
Surr: Toluene-d8	111	70-130		%Rec	1	6/21/2020 4:11:31 PM	53155

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 10 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 4'R

Project: Bootes 15 Fed Com IH

Collection Date: 6/17/2020 11:47:00 AM

Lab ID: 2006942-011

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	94	60		mg/Kg	20	6/22/2020 4:15:22 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2020 2:04:41 AM	53155
Surr: BFB	99.3	70-130		%Rec	1	6/21/2020 2:04:41 AM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	650	47		mg/Kg	5	6/20/2020 1:43:34 PM	53169
Motor Oil Range Organics (MRO)	430	240		mg/Kg	5	6/20/2020 1:43:34 PM	53169
Surr: DNOP	154	55.1-146	S	%Rec	5	6/20/2020 1:43:34 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	6/21/2020 2:04:41 AM	53155
Toluene	ND	0.049		mg/Kg	1	6/21/2020 2:04:41 AM	53155
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2020 2:04:41 AM	53155
Xylenes, Total	ND	0.097		mg/Kg	1	6/21/2020 2:04:41 AM	53155
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	6/21/2020 2:04:41 AM	53155
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/21/2020 2:04:41 AM	53155
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/21/2020 2:04:41 AM	53155
Surr: Toluene-d8	103	70-130		%Rec	1	6/21/2020 2:04:41 AM	53155

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 11 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-13 0-1'

Project: Bootes 15 Fed Com IH

Collection Date: 6/17/2020 12:12:00 PM

Lab ID: 2006942-012

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/22/2020 4:27:43 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	48	4.9		mg/Kg	1	6/21/2020 2:33:19 AM	53155
Surr: BFB	103	70-130		%Rec	1	6/21/2020 2:33:19 AM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2020 3:24:07 PM	53182
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2020 3:24:07 PM	53182
Surr: DNOP	89.1	55.1-146		%Rec	1	6/20/2020 3:24:07 PM	53182
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.39	0.024		mg/Kg	1	6/21/2020 2:33:19 AM	53155
Toluene	1.6	0.049		mg/Kg	1	6/21/2020 2:33:19 AM	53155
Ethylbenzene	1.1	0.049		mg/Kg	1	6/21/2020 2:33:19 AM	53155
Xylenes, Total	2.3	0.097		mg/Kg	1	6/21/2020 2:33:19 AM	53155
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/21/2020 2:33:19 AM	53155
Surr: 4-Bromofluorobenzene	62.6	70-130	S	%Rec	1	6/21/2020 2:33:19 AM	53155
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/21/2020 2:33:19 AM	53155
Surr: Toluene-d8	103	70-130		%Rec	1	6/21/2020 2:33:19 AM	53155

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

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

Page 12 of 19

Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-13 2'R

Project: Bootes 15 Fed Com 1H

Collection Date: 6/17/2020 12:12:00 PM

Lab ID: 2006942-013

Matrix: SOIL

Received Date: 6/18/2020 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/22/2020 5:04:47 PM	53222
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2020 3:01:51 AM	53155
Surr: BFB	99.4	70-130		%Rec	1	6/21/2020 3:01:51 AM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2020 3:34:16 PM	53182
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2020 3:34:16 PM	53182
Surr: DNOP	99.0	55.1-146		%Rec	1	6/20/2020 3:34:16 PM	53182
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	6/21/2020 3:01:51 AM	53155
Toluene	ND	0.050		mg/Kg	1	6/21/2020 3:01:51 AM	53155
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2020 3:01:51 AM	53155
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2020 3:01:51 AM	53155
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/21/2020 3:01:51 AM	53155
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	6/21/2020 3:01:51 AM	53155
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/21/2020 3:01:51 AM	53155
Surr: Toluene-d8	109	70-130		%Rec	1	6/21/2020 3:01:51 AM	53155

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 13 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006942

24-Jun-20

Client: Talon Artesia

Project: Bootes 15 Fed Com IH

Sample ID: MB-53218	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 53218	RunNo: 69820
Prep Date: 6/22/2020	Analysis Date: 6/22/2020	SeqNo: 2424460 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-53218	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 53218	RunNo: 69820
Prep Date: 6/22/2020	Analysis Date: 6/22/2020	SeqNo: 2424461 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 97.2 90 110

Sample ID: MB-53222	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 53222	RunNo: 69820
Prep Date: 6/22/2020	Analysis Date: 6/22/2020	SeqNo: 2424491 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-53222	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 53222	RunNo: 69820
Prep Date: 6/22/2020	Analysis Date: 6/22/2020	SeqNo: 2424492 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.1 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#: 2006942

24-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: LCS-53169	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53169	RunNo: 69757								
Prep Date: 6/19/2020	Analysis Date: 6/19/2020	SeqNo: 2421977 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	4.4		5.000		88.0	55.1	146			

Sample ID: MB-53169	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53169	RunNo: 69757								
Prep Date: 6/19/2020	Analysis Date: 6/19/2020	SeqNo: 2421979 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	9.6		10.00		95.6	55.1	146			

Sample ID: LCS-53182	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53182	RunNo: 69768								
Prep Date: 6/19/2020	Analysis Date: 6/20/2020	SeqNo: 2422438 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.1	70	130			
Surr: DNOP	4.8		5.000		95.4	55.1	146			

Sample ID: LCS-53184	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53184	RunNo: 69768								
Prep Date: 6/19/2020	Analysis Date: 6/20/2020	SeqNo: 2422439 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.4		5.000		128	55.1	146			

Sample ID: MB-53182	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53182	RunNo: 69768								
Prep Date: 6/19/2020	Analysis Date: 6/20/2020	SeqNo: 2422441 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2006942
24-Jun-20

Client: Talon Artesia
Project: Bootes 15 Fed Com 1H

Sample ID: MB-53184		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS		Batch ID: 53184		RunNo: 69768						
Prep Date: 6/19/2020		Analysis Date: 6/20/2020		SeqNo: 2422442			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	14		10.00		137	55.1	146			

- Qualifiers:
- Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical 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#: 2006942

24-Jun-20

Client: Talon Artesia
Project: Bootes 15 Fed Com 1H

Sample ID: mb-53155	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422516 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.7	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		87.8	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.56		0.5000		112	70	130			

Sample ID: lcs-53155	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422517 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.3	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.9	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.56		0.5000		112	70	130			

Sample ID: 2006942-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: B-10 0-1'	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422519 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9183	0	108	71.1	115			
Toluene	0.98	0.046	0.9183	0.02065	104	79.6	132			
Ethylbenzene	1.4	0.046	0.9183	0.5187	95.6	83.8	134			
Xylenes, Total	5.5	0.092	2.755	2.767	100	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.46		0.4591		101	70	130			
Surr: 4-Bromofluorobenzene	0.32		0.4591		69.5	70	130			S
Surr: Dibromofluoromethane	0.48		0.4591		105	70	130			
Surr: Toluene-d8	0.51		0.4591		110	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

Page 17 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006942

24-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: 2006942-001amsd		SampType: MSD4		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: B-10 0-1'		Batch ID: 53155		RunNo: 69776						
Prep Date: 6/18/2020		Analysis Date: 6/20/2020		SeqNo: 2422520		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9390	0	109	71.1	115	3.08	20	
Toluene	1.0	0.047	0.9390	0.02065	106	79.6	132	4.05	20	
Ethylbenzene	1.5	0.047	0.9390	0.5187	108	83.8	134	9.23	20	
Xylenes, Total	6.0	0.094	2.817	2.767	116	82.4	132	8.74	20	
Surr: 1,2-Dichloroethane-d4	0.49		0.4695		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.31		0.4695		67.0	70	130	0	0	S
Surr: Dibromofluoromethane	0.52		0.4695		110	70	130	0	0	
Surr: Toluene-d8	0.49		0.4695		105	70	130	0	0	

Qualifiers:

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

Page 18 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006942

24-Jun-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: mb-53155	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422554 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		96.1	70	130			

Sample ID: lcs-53155	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422555 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.4	70	130			
Surr: BFB	480		500.0		96.9	70	130			

Sample ID: 2006942-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: B-10 2'	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422558 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.39	0	84.3	70	130			
Surr: BFB	450		487.8		92.8	70	130			

Sample ID: 2006942-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: B-10 2'	Batch ID: 53155	RunNo: 69776								
Prep Date: 6/18/2020	Analysis Date: 6/20/2020	SeqNo: 2422559 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.72	0	88.6	70	130	2.25	20	
Surr: BFB	470		474.4		99.7	70	130	0	0	

Qualifiers:

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

Page 19 of 19



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2006942

RcptNo: 1

Received By: Isaiah Ortiz 6/18/2020 11:10:00 AM

Completed By: Juan Rojas 6/18/2020 11:22:09 AM

Reviewed By: SPA 6.18.20

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

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: myra 6/18/20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

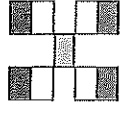
Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				
2	1.1	Good				

Chain-of-Custody Record

Chain-of-Custody Record		Turn-Around Time: 4-day
Client: Talon LPE		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
		Project Name:
Mailing Address: 408 W Texas Ave		Project #: Bootes 1.5 Fed Com 1H
Artesia, NM 88210		700794.343.01
Phone #: 575-746-8768		Project Manager:
email or Fax#:		David Adkins
QA/QC Package:	<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	
Accreditation		
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other	
<input type="checkbox"/> EDD (Type)		
		Sampler: Brandon Sinclair
		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sample Temperature: 17-612-1125

[illegible]

If necessary, samples submitted to Halv 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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX + MTBE + TMB's (8021)
BTEX + MTBE + TPH (Gas only)
TPH B015B (GRO / DRO / MRO)
TPH (Method 418.1)
EDB (Method 504.1)
PAH's (8310 or 8270 SIMS)
RCPRA 8 Metals
Anions ($\text{F}^-/\text{Cl}^-/\text{NO}_3^-/\text{NO}_2^-/\text{PO}_4^{3-}/\text{SO}_4^{2-}$)
8081 Pesticides / 8082 PCB's
8260B (VOA)
8270 (Semi-VOA)
Air Bubbles (Y or N)

Remarks:

2024



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

August 13, 2020

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

RE: Bootes 15 Fed Com 1H

OrderNo.: 2008239

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/6/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 4'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 10:30:00 AM

Lab ID: 2008239-001

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 6:49:50 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	60	9.5		mg/Kg	1	8/12/2020 10:29:00 AM	54338
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/12/2020 10:29:00 AM	54338
Surr: DNOP	111	30.4-154		%Rec	1	8/12/2020 10:29:00 AM	54338
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/7/2020 6:22:42 PM	54224
Surr: BFB	97.9	75.3-105		%Rec	5	8/7/2020 6:22:42 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	8/7/2020 6:22:42 PM	54224
Toluene	ND	0.24		mg/Kg	5	8/7/2020 6:22:42 PM	54224
Ethylbenzene	ND	0.24		mg/Kg	5	8/7/2020 6:22:42 PM	54224
Xylenes, Total	ND	0.49		mg/Kg	5	8/7/2020 6:22:42 PM	54224
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	5	8/7/2020 6:22:42 PM	54224

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 1 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 6'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 10:35:00 AM

Lab ID: 2008239-002

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 7:27:03 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	190	10		mg/Kg	1	8/10/2020 12:02:28 PM	54229
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	8/10/2020 12:02:28 PM	54229
Surr: DNOP	126	30.4-154		%Rec	1	8/10/2020 12:02:28 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	8/7/2020 6:46:12 PM	54224
Surr: BFB	97.7	75.3-105		%Rec	5	8/7/2020 6:46:12 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	8/7/2020 6:46:12 PM	54224
Toluene	ND	0.25		mg/Kg	5	8/7/2020 6:46:12 PM	54224
Ethylbenzene	ND	0.25		mg/Kg	5	8/7/2020 6:46:12 PM	54224
Xylenes, Total	ND	0.49		mg/Kg	5	8/7/2020 6:46:12 PM	54224
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	5	8/7/2020 6:46:12 PM	54224

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

Qualifiers:

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

Page 2 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 8'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 10:40:00 AM

Lab ID: 2008239-003

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 7:39:27 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	220	9.9		mg/Kg	1	8/10/2020 12:26:36 PM	54229
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	8/10/2020 12:26:36 PM	54229
Surr: DNOP	128	30.4-154		%Rec	1	8/10/2020 12:26:36 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/7/2020 7:09:40 PM	54224
Surr: BFB	102	75.3-105		%Rec	5	8/7/2020 7:09:40 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	8/7/2020 7:09:40 PM	54224
Toluene	ND	0.24		mg/Kg	5	8/7/2020 7:09:40 PM	54224
Ethylbenzene	ND	0.24		mg/Kg	5	8/7/2020 7:09:40 PM	54224
Xylenes, Total	ND	0.48		mg/Kg	5	8/7/2020 7:09:40 PM	54224
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	5	8/7/2020 7:09:40 PM	54224

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

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

Page 3 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 6'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 1:45:00 PM

Lab ID: 2008239-004

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/7/2020 2:16:42 PM	54229
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/7/2020 2:16:42 PM	54229
Surr: DNOP	110	30.4-154		%Rec	1	8/7/2020 2:16:42 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2020 7:33:09 PM	54224
Surr: BFB	93.8	75.3-105		%Rec	1	8/7/2020 7:33:09 PM	54224

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	II	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

Page 4 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-12 8'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 2:00:00 PM

Lab ID: 2008239-005

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/7/2020 2:26:26 PM	54229
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/7/2020 2:26:26 PM	54229
Surr: DNOP	132	30.4-154		%Rec	1	8/7/2020 2:26:26 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2020 8:43:22 PM	54224
Surr: BFB	101	75.3-105		%Rec	1	8/7/2020 8:43:22 PM	54224

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 5 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-14 0-1'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 12:55:00 PM

Lab ID: 2008239-006

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 8:16:40 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	8/7/2020 2:36:09 PM	54229
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/7/2020 2:36:09 PM	54229
Surr: DNOP	89.6	30.4-154		%Rec	1	8/7/2020 2:36:09 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/7/2020 9:06:44 PM	54224
Surr: BFB	101	75.3-105		%Rec	1	8/7/2020 9:06:44 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/7/2020 9:06:44 PM	54224
Toluene	ND	0.048		mg/Kg	1	8/7/2020 9:06:44 PM	54224
Ethylbenzene	ND	0.048		mg/Kg	1	8/7/2020 9:06:44 PM	54224
Xylenes, Total	ND	0.095		mg/Kg	1	8/7/2020 9:06:44 PM	54224
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	8/7/2020 9:06:44 PM	54224

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 6 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-14 2'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 12:55:00 PM

Lab ID: 2008239-007

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 8:29:04 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/7/2020 2:45:54 PM	54229
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/7/2020 2:45:54 PM	54229
Surr: DNOP	79.0	30.4-154		%Rec	1	8/7/2020 2:45:54 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/7/2020 9:30:10 PM	54224
Surr: BFB	101	75.3-105		%Rec	1	8/7/2020 9:30:10 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/7/2020 9:30:10 PM	54224
Toluene	ND	0.049		mg/Kg	1	8/7/2020 9:30:10 PM	54224
Ethylbenzene	ND	0.049		mg/Kg	1	8/7/2020 9:30:10 PM	54224
Xylenes, Total	ND	0.099		mg/Kg	1	8/7/2020 9:30:10 PM	54224
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	8/7/2020 9:30:10 PM	54224

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 7 of 13

Analytical Report

Lab Order 2008239

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-14 3'R

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 12:55:00 PM

Lab ID: 2008239-008

Matrix: SOIL

Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/10/2020 8:41:29 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/7/2020 2:55:39 PM	54229
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/7/2020 2:55:39 PM	54229
Surr: DNOP	61.9	30.4-154		%Rec	1	8/7/2020 2:55:39 PM	54229
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/7/2020 9:53:35 PM	54224
Surr: BFB	99.1	75.3-105		%Rec	1	8/7/2020 9:53:35 PM	54224
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/7/2020 9:53:35 PM	54224
Toluene	ND	0.049		mg/Kg	1	8/7/2020 9:53:35 PM	54224
Ethylbenzene	ND	0.049		mg/Kg	1	8/7/2020 9:53:35 PM	54224
Xylenes, Total	ND	0.098		mg/Kg	1	8/7/2020 9:53:35 PM	54224
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	8/7/2020 9:53:35 PM	54224

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 8 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008239

13-Aug-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: MB-54292	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54292	RunNo: 70965								
Prep Date: 8/10/2020	Analysis Date: 8/10/2020	SeqNo: 2472350		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54292	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54292	RunNo: 70965								
Prep Date: 8/10/2020	Analysis Date: 8/10/2020	SeqNo: 2472351		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	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#: 2008239

13-Aug-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com 1H

Sample ID: LCS-54229	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54229	RunNo: 70967								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2472657 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	125	70	130			
Surr: DNOP	6.6		5.000		131	30.4	154			

Sample ID: MB-54229	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54229	RunNo: 70967								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2472660 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	15		10.00		145	30.4	154			

Sample ID: LCS-54255	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54255	RunNo: 70976								
Prep Date: 8/7/2020	Analysis Date: 8/10/2020	SeqNo: 2472908 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	30.4	154			

Sample ID: MB-54255	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54255	RunNo: 70976								
Prep Date: 8/7/2020	Analysis Date: 8/11/2020	SeqNo: 2472909 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		10.00		56.6	30.4	154			

Sample ID: MB-54338	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54338	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474097 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	30.4	154			

Sample ID: LCS-54338	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54338	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474098 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

Page 10 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008239

13-Aug-20

Client: Talon Artesia
 Project: Bootes 15 Fed Com IH

Sample ID: LCS-54338	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54338	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474098 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	70	130			
Surr: DNOP	5.1		5.000		101	30.4	154			

Sample ID: MB-54340	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474101 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		123	30.4	154			

Sample ID: LCS-54340	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54340	RunNo: 71011								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474102 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	30.4	154			

Sample ID: LCS-54341	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54341	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474931 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		113	30.4	154			

Sample ID: MB-54341	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54341	RunNo: 71030								
Prep Date: 8/11/2020	Analysis Date: 8/12/2020	SeqNo: 2474933 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		129	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

Page 11 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008239

13-Aug-20

Client: Talon Artesia
Project: Bootes 15 Fed Com IH

Sample ID: Ics-54224	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470489 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	72.5	106			
Surr: BFB	1100		1000		110	75.3	105			S

Sample ID: mb-54224	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470491 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	980		1000		98.3	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

Page 12 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008239

13-Aug-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: LCS-54224	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470537 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: mb-54224	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470539 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			

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

Page 13 of 13



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: 2008239

ReptNo: 1

Received By: Juan Rojas 8/6/2020 8:00:00 AM

Completed By: Juan Rojas 8/6/2020 8:29:33 AM

Reviewed By: mg 08/06/20

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 $>0^{\circ}\text{C}$ 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: SPA 8.6.20

Special Handling (if applicable)

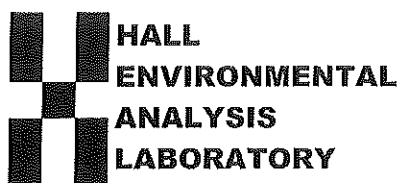
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good				
2	2.1	Good				
3	-0.4	Good				



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

August 25, 2020

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

RE: Bootes 15 Fed Com 1H

OrderNo.: 2008781

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/14/2020 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2008781

Date Reported: 8/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 10'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 10:40:00 AM

Lab ID: 2008781-001

Matrix: SOIL

Received Date: 8/14/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/17/2020 5:46:32 AM	54435
Surr: BFB	105	70-130		%Rec	1	8/17/2020 5:46:32 AM	54435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	320	9.5	H	mg/Kg	1	8/20/2020 10:51:04 AM	54566
Motor Oil Range Organics (MRO)	350	47	H	mg/Kg	1	8/20/2020 10:51:04 AM	54566
Surr: DNOP	110	30.4-154	H	%Rec	1	8/20/2020 10:51:04 AM	54566

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

Qualifiers:

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

Analytical Report

Lab Order 2008781

Date Reported: 8/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 15'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 10:50:00 AM

Lab ID: 2008781-002

Matrix: SOIL

Received Date: 8/14/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/17/2020 6:14:58 AM	54435
Surr: BFB	107	70-130		%Rec	1	8/17/2020 6:14:58 AM	54435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	61	10	H	mg/Kg	1	8/20/2020 11:39:07 AM	54566
Motor Oil Range Organics (MRO)	70	50	H	mg/Kg	1	8/20/2020 11:39:07 AM	54566
Surr: DNOP	109	30.4-154	H	%Rec	1	8/20/2020 11:39:07 AM	54566

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 2 of 5

Analytical Report

Lab Order 2008781

Date Reported: 8/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 20'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/4/2020 11:00:00 AM

Lab ID: 2008781-003

Matrix: SOIL

Received Date: 8/14/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/17/2020 6:43:23 AM	54435
Surr: BFB	101	70-130		%Rec	1	8/17/2020 6:43:23 AM	54435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	120	9.2	H	mg/Kg	1	8/20/2020 12:03:07 PM	54566
Motor Oil Range Organics (MRO)	130	46	H	mg/Kg	1	8/20/2020 12:03:07 PM	54566
Surr: DNOP	108	30.4-154	H	%Rec	1	8/20/2020 12:03:07 PM	54566

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2008781

25-Aug-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: LCS-54566	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54566	RunNo: 71215								
Prep Date: 8/20/2020	Analysis Date: 8/20/2020	SeqNo: 2484368 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	70	130			
Surr: DNOP	4.6		5.000		91.4	30.4	154			

Sample ID: MB-54566	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54566	RunNo: 71215								
Prep Date: 8/20/2020	Analysis Date: 8/20/2020	SeqNo: 2484370 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	30.4	154			

Sample ID: 2008781-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: B-11 10'	Batch ID: 54566	RunNo: 71215								
Prep Date: 8/20/2020	Analysis Date: 8/20/2020	SeqNo: 2485345 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	580	9.9	49.26	317.6	531	47.4	136			SH
Surr: DNOP	5.7		4.926		115	30.4	154			H

Sample ID: 2008781-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: B-11 10'	Batch ID: 54566	RunNo: 71215								
Prep Date: 8/20/2020	Analysis Date: 8/20/2020	SeqNo: 2485346 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	660	9.9	49.70	317.6	690	47.4	136	13.1	43.4	SH
Surr: DNOP	6.1		4.970		122	30.4	154	0	0	H

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

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008781

25-Aug-20

Client: Talon Artesia
Project: Bootes 15 Fed Com 1H

Sample ID: mb-54435	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54435	RunNo: 71117								
Prep Date: 8/15/2020	Analysis Date: 8/16/2020	SeqNo: 2479008 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	520		500.0		105	70	130			

Sample ID: lcs-54435	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54435	RunNo: 71117								
Prep Date: 8/15/2020	Analysis Date: 8/16/2020	SeqNo: 2479009 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	87.8	70	130			
Surr: BFB	530		500.0		107	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: **2008781**

RcptNo: 1

Received By: **Cheyenne Cason** 8/14/2020 8:00:00 AM

Completed By: **Emily Mocho** 8/14/2020 8:50:50 AM

Reviewed By: **IO** 8/14/20

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

of preserved
bottles checked
for pH:

(>2 or >12 unless noted)

Adjusted?

Checked by: CMC 8/14/20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			



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

August 28, 2020

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

RE: Bootes 15 Fed Com 1H

OrderNo.: 2008C85

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2008C85

Date Reported: 8/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 25'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/19/2020 1:07:00 PM

Lab ID: 2008C85-001

Matrix: SOIL

Received Date: 8/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/26/2020 5:00:43 PM	54677
Surr: BFB	104	70-130		%Rec	1	8/26/2020 5:00:43 PM	54677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/26/2020 11:33:14 PM	54682
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2020 11:33:14 PM	54682
Surr: DNOP	86.7	30.4-154		%Rec	1	8/26/2020 11:33:14 PM	54682

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 1 of 4

Analytical Report

Lab Order 2008C85

Date Reported: 8/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-11 30'

Project: Bootes 15 Fed Com 1H

Collection Date: 8/19/2020 1:42:00 PM

Lab ID: 2008C85-002

Matrix: SOIL

Received Date: 8/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/26/2020 6:26:39 PM	54677
Surr: BFB	103	70-130		%Rec	1	8/26/2020 6:26:39 PM	54677
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/26/2020 11:43:10 PM	54682
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2020 11:43:10 PM	54682
Surr: DNOP	81.3	30.4-154		%Rec	1	8/26/2020 11:43:10 PM	54682

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 2 of 4

QC SUMMARY REPORT

WO#: 2008C85

Hall Environmental Analysis Laboratory, Inc.

28-Aug-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: LCS-54659	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54659	RunNo: 71390								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492004 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.2	30.4	154			

Sample ID: LCS-54682	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54682	RunNo: 71390								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492007 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	87.0	70	130			
Surr: DNOP	3.8		5.000		75.4	30.4	154			

Sample ID: MB-54659	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54659	RunNo: 71390								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492008 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.6	30.4	154			

Sample ID: MB-54682	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54682	RunNo: 71390								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492011 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.8	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

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008C85

28-Aug-20

Client: Talon Artesia

Project: Bootes 15 Fed Com 1H

Sample ID: lcs-54677	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54677	RunNo: 71405								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492981 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	88.2	70	130			
Surr: BFB	520		500.0		105	70	130			

Sample ID: mb-54677	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54677	RunNo: 71405								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492982 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	510		500.0		103	70	130			

Sample ID: 2008c85-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: B-11 25'	Batch ID: 54677	RunNo: 71405								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492986 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.18	0	93.4	49.2	122			
Surr: BFB	510		483.6		105	70	130			

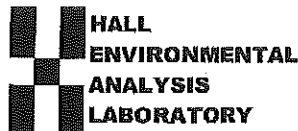
Sample ID: 2008c85-001amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: B-11 25'	Batch ID: 54677	RunNo: 71405								
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: 2492987 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.80	0	91.6	49.2	122	0.600	20	
Surr: BFB	510		496.0		102	70	130	0	0	

Qualifiers:

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

Page 4 of 4



*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: 2008C85

RcptNo: 1

Received By: **Cheyenne Cason**

8/25/2020 8:00:00 AM

Completed By: **Juan Rojas**

8/25/2020 8:05:18 AM

Reviewed By: JR 8/25/20

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

(<2)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	4.9	Good				

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 11651

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
TALON LPE	408 W Texas	Artesia, NM88210	329944	11651	C-141

OCD Reviewer	Condition
chensley	Remediation plan Approved. Remediation due by 6/1/2021.