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-14
Revised August 24, 201
Submit to appropriate OCD District offic

Incident ID	NRM2014569455
District RP	
Facility ID	
Application ID	

Volume/Weight Recovered (provide units)

#### Release Notification

#### Responsible Party

			100	ponsione k an	c y	
Responsible	Party Dev	on Energy Produ	ction Company	OGRID	6137	
Contact Name Wesley Mathews			Contact 7	Telephone 575-74	8-6195	
		Mathews@dvn	.com	Incident	(assigned by OCD)	
		6488 Seven R				
			Location	of Release S	ource	
Latitude 32	2.6676		ALID III : I	Longitude	-103.8497	
			(NAD 83 in ae	cimal degrees to 5 deci	mal piaces)	
Site Name Bo	otes 15 F	ed Com 1H		Site Type	Oil	ı
Date Release	Discovered	5/10/2020		API# (if ap	olicable) 30-015-40	0407
Unit Letter	Section	Township	Range	Cour	ıty	
Α	15	19S	31E	Edd	yk	
Surface Owner: State Federal Tribal Private (Nam			Name:		)	
Nature and V			l Volume of 1	Release		
	Materia				justification for the vol	
Crude Oil			<sup>d</sup> ( <sup>bbls</sup> ) 10.79 BE			ed (bbls) 3 BBLS
Produced	Water	Volume Released	<sup>l (bbls)</sup> 21.44 BE	BLS	Volume Recover	red (bbls) 2 BBLS
			on of total dissolv vater >10,000 mg/		Yes No	
Condensat	е	Volume Released	l (bbls)		Volume Recover	ed (bbls)
☐ Natural Gas Volume Released (Mcf)			Volume Recovere	ed (Mcf)		

Const (describe	П	Other (desc	wihe
		Office (dose	1100
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Cause of Release Fluid released from stuffing box on the well. Some fluid ran off pad.

Volume/Weight Released (provide units)

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Received by OCD: .	5/22/2020 3:13:24 PM
Form C-141	State of New Mexico
Page 2	Oil Conservation Division

	Page 2 0
Incident ID	NRM2014569455
District RP	
Facility ID	
Application JD	

Was this a major release as defined by	·	or release because it is over 25 BBLS.
19.15.29.7(A) NMAC?		
Yes No		
		n? To whom? When and by what means (phone, email, etc)?
	email to Debhorah McKir om Wesley Mathews on 5/	nne, Robert Hamlet, Jim Griswold, Mike Bratcher, and /11/2020.
	Ini	itial Response
The responsible p	arty must undertake the following actions	immediately unless they could create a safety hazard that would result in injury
The source of the relea	ase has been stopped.	
	been secured to protect human he	ealth and the environment.
Released materials have	e been contained via the use of bo	erms or dikes, absorbent pads, or other containment devices.
All free liquids and red	coverable materials have been rem	noved and managed appropriately.
If all the actions described	above have <u>not</u> been undertaken,	explain why:
The spill was not in o	containment.	
has begun, please attach a	narrative of actions to date. If re	mence remediation immediately after discovery of a release. If remediation emedial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation.
regulations all operators are republic health or the environme failed to adequately investigate addition, OCD acceptance of a and/or regulations.	quired to report and/or file certain rele ent. The acceptance of a C-141 report a and remediate contamination that po a C-141 report does not relieve the ope	the to the best of my knowledge and understand that pursuant to OCD rules and ease notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have use a threat to groundwater, surface water, human health or the environment. In erator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kendra	DeHoyos	Title: EHS Associate
Signature: Kendra D		Date: <u>5/22/2020</u>
<sub>email:</sub> Kendra.DeH	oyos@dvn.com	Telephone: <u>575-748-0167</u>
OCD Only		
Received by: Ramona M	arcus	Date: _5/24/2020

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

Released to Imaging: 3/1/2021 3:22:44 PM

#### Site Assessment/Characterization

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

(ft bgs)
☐ Yes 🛛 No
☐ Yes 🛛 No
☐ Yes ⊠ No
☐ Yes ⊠ No
] Yes⊠ No
] Yes ⊠ No
] Yes⊠ No
] Yes 🛛 No
] Yes ⊠ No
] Yes ⊠ No
] Yes 🛛 No
Yes No

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

	<u>Ch</u>	aracterization Report Checklist: Each of the following tiems must be included in the report.
/9/2020 4:24:21 PM		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
OCD	olan.	e site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan nethods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 5.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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 regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Brandon Sinclair	Title: Environmental Project Manager
Signature: Branks Dink	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	

Released to Imaging: 3/1/2021 3:22:44 PM

#### Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.							
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29</li> <li>☑ Proposed schedule for remediation (note if remediation plan tine)</li> </ul>	.12(C)(4) NMAC							
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility							
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 completules and regulations all operators are required to report and/or file which may endanger public health or the environment. The acceptationality should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the complete with any other federal, state, or local leads to the complete with any other federal, state, or local leads to the complete with the	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of							
Printed Name: Brandon Sinclair	Title: Environmental Project Manager							
Signature: The Suil	Date: 12-3-2020							
email: bsinclair@talonlpe.com	Telephone: 575-746-8768							
OCD Only								
Received by:	Date:							
Approved	Approval Denied Deferral Approved							
ignature:	Date:							





## TALON

#### 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** 

Received by OCD: 12/9/2020 4:24:21 PM

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

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.

# Receiped by OCD: 12/9/2020 4:24:21 PM

#### 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.

<b>Approximate Depth</b>	to Groundwater	166 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing watercours any other significant watercourse	e or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake	
□Yes ⊠No	Within 300 feet from an occupied permanent residence school, hospital, institution or church	9,
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic fresh well used by less than five households for domestic or watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spring Within incorporated municipal boundaries or within a dimensional fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA	ipal
☐Yes ☑No ☐Yes ☑No ☐Yes ☑No ☐Yes ☑No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area 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.

# Receired by OCD: 12/9/2020 4:24:21 PM

#### **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 airrotary 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					
	0-1	5/29/2020	210.6	4.6	1500	3200	1600	6300.0	ND				
B-1	2	5/29/2020	0.75	0.023	5.8	150	83	238.8	ND				
D-T	3	5/29/2020	ND	ND	ND	ND	ND	2	ND				
	4R	5/29/2020	0.037	ND	ND	19	ND	19.0	ND				
	0-1	5/29/2020	16.25	ND	150	1600	860	2610.0	61				
B-2	2	5/29/2020	ND	ND	ND	ND	ND		110				
	3R	5/29/2020	ND	ND	ND	ND	ND	•	ND				
	0-1	5/29/2020	61.65	0.65	420	3500	1500	5420.0	ND				
B-3	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				
	WHEE	NAME OF STREET											
	0-1	5/29/2020	ND	ND	ND	ND	ND	-	ND				
B-4	2	5/29/2020	ND	ND	ND	ND	ND	<u> </u>	61				
D-4	3	5/29/2020	ND	ND	ND	ND	ND	. 5	ND				
	4R	5/29/2020	ND	ND	ND	ND	ND	Н	ND				
	0-1	5/29/2020	ND	ND	ND	16	ND	16.0	5200				
B-5	2	5/29/2020	ND	ND	ND	ND	ND	-	4000				
] د-و	3	5/29/2020	ND	ND	ND	ND	ND	_	4300				
	4R	5/29/2020	ND	ND	ND	ND	ND	1477	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
	0-1	5/29/2020	17.3	ND	69	2400	1500	3969.0	3800
D.C	2	5/29/2020	0.2	ND	ND	ND	ND	=	970
B-6	3	5/29/2020	0.14	ND	ND	ND	ND	2	550
	4R	5/29/2020	ND	ND	ND	ND	ND	-	360
	0-1	5/29/2020	ND	ND	ND	ND	ND	#)	390
B-7	2	5/29/2020	ND	ND	ND	ND	ND	-	230
	3R	5/29/2020	ND	ND	ND	13	ND	13.0	990
	0-1	5/29/2020	93.44	0.14	340	3900	2100	6340.0	3100
D O	2	5/29/2020	1.792	0.032	5.1	ND	ND	5.1	98
B-8	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
	0-1	5/29/2020	6.337	0.027	29	1400	760	2189.0	4100
B-9	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
	0-1	6/17/2020	3.32	ND	23	19000	12000	31023.0	13000
D 40	2	6/17/2020	ND	ND	ND	180	120	300.0	290
B-10	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

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	
	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
B-11	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
	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
D 42	3	6/17/2020	1.66	0.12	14	640	490	1144.0	ND
B-12	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_
D 12	0-1	6/17/2020	5.39	0.39	48	ND	ND	48.0	ND
B-13	2R	6/17/2020	ND	ND	ND	ND	ND		ND
	0-1	8/4/2020	ND	ND	ND	ND	ND	-	ND
B-14	2	8/4/2020	ND	ND	ND	ND	ND	-	ND
	3R	8/4/2020	ND	ND	ND	ND	ND	-	ND
ID- And	Juto No	t Dotoctod							

ND= Analyte Not Detected NT=Analyte Not Tested R= Refusal with Geoprobe

# Receiped by OCD: 12/9/2020 4:24:21 PM

#### **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.

# Received by OCD: 12/9/2020 4:24:21 PM

#### 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

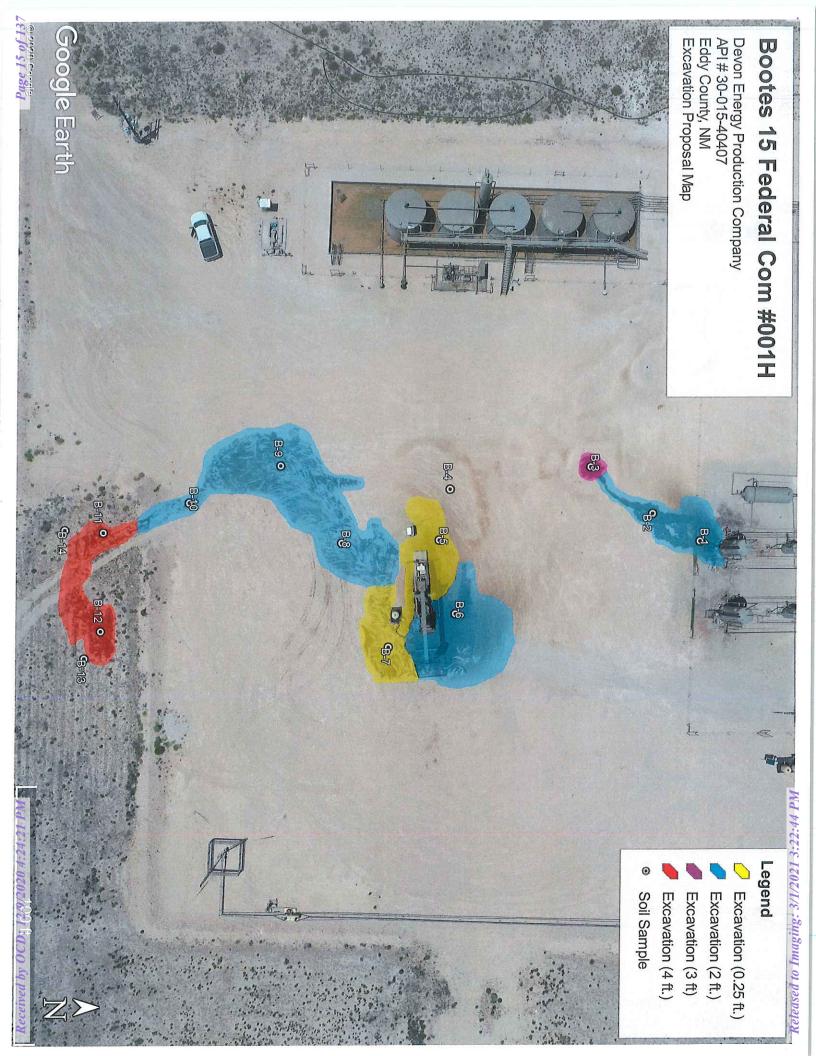
Appendix IV Photographic Documentation

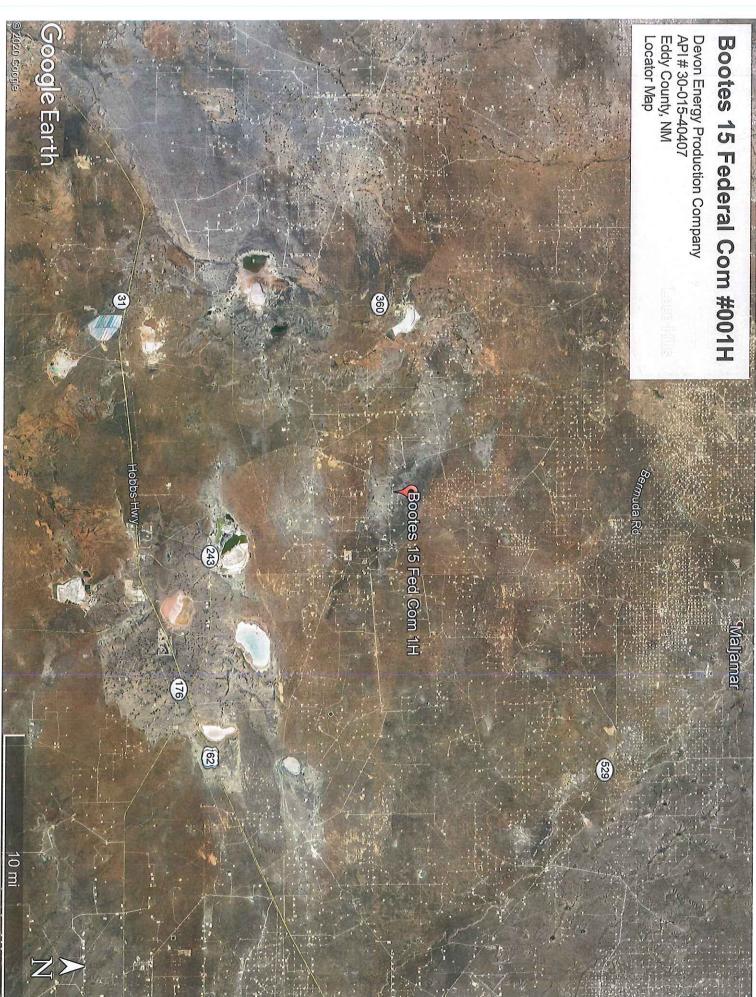
Appendix V Laboratory Data



## <u>APPENDIX I</u>

### SITE MAPS







## **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

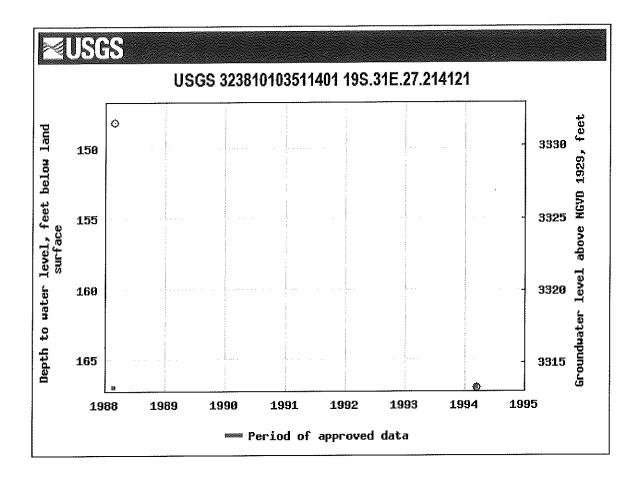
**Drilling Method: Air Rotary** 

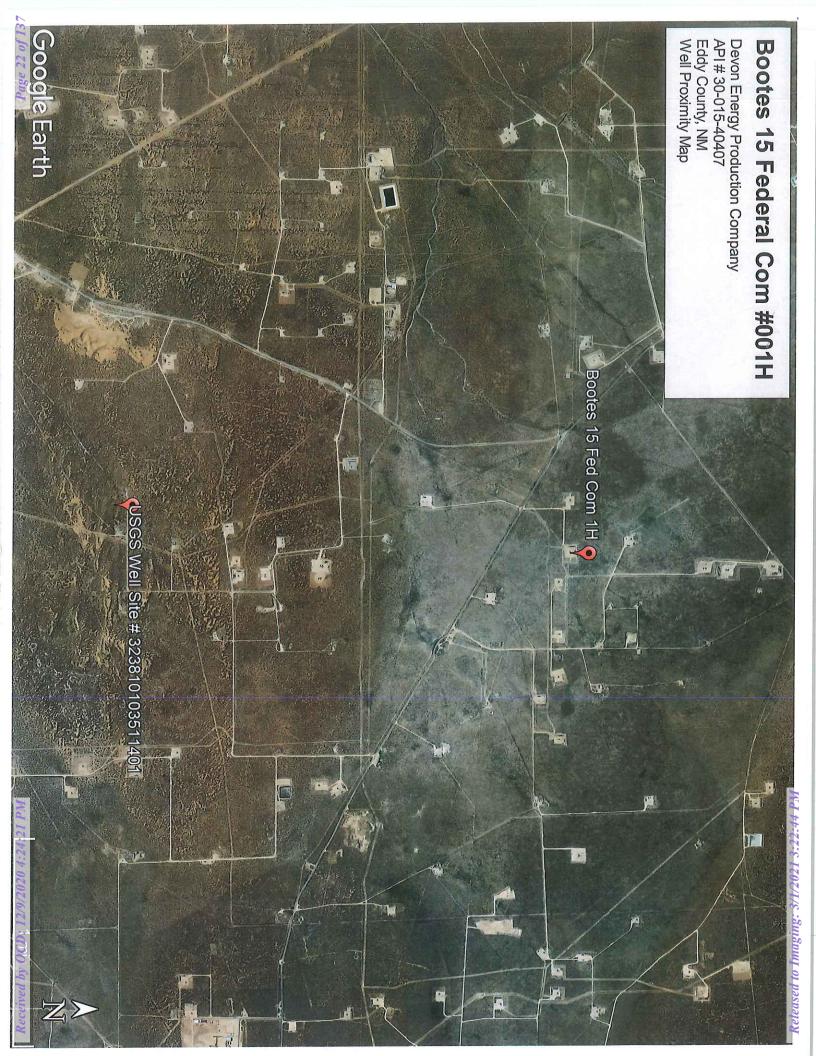
Boring Number: B-11

Longitude: -103.849887° W

Sample Retrieval Method: Core Liner

Domig	2.50000000000000							
Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ff)	nscs	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	
				lit.				
		•						
			,					
Surfac Notes:	TD 53	tion:	water Not	Enco	ountered			







## 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)

					3 110	,00	.,						100		
		POD Sub-		0	Q	0								,	Nater
POD Number	Code	basin	County	64	116	6 4	Sec		-	Х		DistanceDep			
GP 01554 POD1		CP	LE	2	2	1	22	198	31E	607166	3613354 🥌	1808	400		
CP 01554 POD2		CP	LE	2	2	1	22	198	31E	607165	3613322 🥘	1838	400		
CP 00829 POD1		CP	LE		2	4	16	198	31E	606165	3614009*	1974	120		
CP 00849 POD1		CP	LE	3	1	3	35	188	31E	608012	3618757*	3734	300		
CP 00563 POD1		CP	LE	1	1	2	19	198	32E	612118	3613376* 🌑	4568	300		
CP 00642 POD1		CP	ED		2	2	25	198	31E	611025	3611657*	4623	250		
CP 00640 POD1		CP	LE		2	2	19	198	32E	612621	3613280* 🌍	5073	260	102	158
CP 00725 POD1		CP	ED	1	3	3	28	198	31E	604906	3610473*	5425	231		
CP 00722 POD1		CP	LE	4	3	3	28	198	31E	605106	3610273*	5491	200		
CP 00639 POD1		CP	LE		3	1	20	198	32E	613029	3612880* 📳	5598	350	345	5
CP 00723 POD1		CP	ED	2	1	1	33	198	31E	605111	3610071*	5664	139		
CP 01656 POD2		CP	LE	3	4	3	17	198	32E	613364	3613648 🎒	5675	70		
CP 01656 POD1		CP	LE	3	4	3	17	198	32E	613368	3613646 🎒	5680	70		
CP 01656 POD3		CP	LE	3	4	3	17	198	32E	613374	3613633 🌑	5689	30		
CP 00722 POD3		CP	LE.	2	4	1	33	198	31E	605519	3609673*	5840	220	140	80
CP 00641 POD1		CP	ED		4	1	36	198	31E	610247	3609634*	5897	300	130	170
CP 00873 POD1		CP	LE		1	1	19	198	31E	601772	3613147*	6368	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	198	30E	600667	3612631*	7578	630		
CP 00357 POD2		CP	ED	4	3	1	24	198	30E	600265	3612627*	7962	630		
CP 00722 POD2		CP	ED	2	1	1	25	198	30E	600276	3611620*	8311	350	65	285
CP 00520		CP	ED	4	4	1	10	208	31E	607163	3606278*	8774	280	130	150
CP 00767 POD1		CP	ED		3	2	35	188	30E	599300	3619158*	9503	500		
CP 00647 POD1	0	CP	ED	4	2	2	15	198	30E	598235	3614621*	9630	200	92	108
CP 00822 POD1		CP	LE		4	4	15	198	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

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

#### 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

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

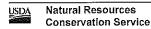
Percent of map unit: 5 percent

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



SPECIAL FLOOD HAZARD AREAS

Regulatory Floodway

With BFE or Depth zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Zone A, V, A99

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average

depth less than one foot or with drainag

Future Conditions 1% Annual areas of less than one square mile zone)

OTHER AREAS OF FLOOD HAZARD

Chance Flood Hazard Zone X Levee. See Notes. Zone X Area with Reduced Flood Risk due to

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone

OTHER AREAS

GENERAL ---Channel, Culvert, or Storm Sewer

STRUCTURES | 1111111 Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Limit of Study Base Flood Elevation Line (BFE)

350120 Eddy County

AREA OF MINIMAL FLOOD HAZARD

Zone X

Jurisdiction Boundary Coastal Transect Baseline

**FEATURES** OTHER Profile Baseline Hydrographic Feature

Digital Data Available



The pin displayed on the map is an approximate Unmapped No Digital Data Available

MAP PANELS

an authoritative property location. point selected by the user and does not represe

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

authoritative NFHL web services provided by FEMA. This map

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

Received by OCD: 12/9/2020 4:34:21 PM

500

1,000

1,500

2,000 Heet

1:6,000

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

32°39'48.31"N

103°50'40.33"W

become superseded by new data over time.

time. The NFHL and effective information may change or was exported on 5/13/2020 at 10:39:58 AM and does not

reflect changes or amendments subsequent to this date and



## **APPENDIX III**

**C-141 FORMS** 

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

<u>District I</u> 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 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 Devo	n Energy Produc	tion Company	O <sub>6137</sub>					
Contact Nan				Contac	t Telephone 575-748-6	6195			
		Mathews@dvn.	com	Incide	nt # (assigned by OCD)				
		6488 Seven Ri							
			Location	of Release	Source				
_atitude _32	.6676		OVAD 83 in dec	Longitue	-103.8497				
			(NAD 05 III dec		35 3 				
		ed Com 1H		Site Ty	<u> </u>	1			
Date Release	Discovered	5/10/2020		API# (i)	API# (if applicable) 30-015-40407				
Unit Letter	Section	Township	Range	C	ounty				
Α	15	198	31E	Е	Eddy				
Surface Owner	r: State	■ Federal □ Tr	ibal Private (A	Name:		)			
			Nature and	l Volume a	f Release				
	Materia	l(s) Released (Select al	that apply and attach	calculations or spec	rific justification for the volun	nes provided below)			
Crude Oil			d (bbls) 10.79 Bl		Volume Recovered	d (bbls) 3 BBLS			
Produced	Water	Volume Release	d (bbls) 21.44 Bl	3LS	Volume Recovered	l (bbls) 2 BBLS			
		in the produced v	ion of total dissolv vater >10,000 mg/						
Condensa	te	Volume Release	d (bbls)		Volume Recovered	i (bbls)			
Natural G	as	Volume Release	d (Mcf)		Volume Recovered	l (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Re	Volume/Weight Recovered (provide units)			

Cause of Release Fluid released from stuffing box on the well. Some fluid ran off pad.

24 PM State of New Mexico	
Oil Conservation Divisio	ľ

7)	2	_	63
Page	4	0	13

	1 11/10 20 11
Incident ID	NRM2014569455
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	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.	
☐ Yes ☐ No		
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 Debhorah 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		
<ul> <li>☐ The source of the release has been stopped.</li> <li>☐ The impacted area has been secured to protect human health and the environment.</li> <li>☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</li> <li>☐ All free liquids and recoverable materials have been removed and managed appropriately.</li> <li>If all the actions described above have not been undertaken, explain why:</li> <li>The spill was not in containment.</li> </ul>		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Kendra DeHoyos	Title: EHS Associate	
Printed Name: Kendra DeHoyos Signature: Kendra DeHoyos	Date: <u>5/22/2020</u>	
<sub>email:</sub> Kendra.DeHoyos@dvn.com	Telephone: 575-748-0167	
OCD Only  Received by: Ramona Marcus	Date:5/24/2020	



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.

12 1	1
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?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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
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 an. 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



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

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: Brank Sint	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	

Released to Imaging: 3/1/2021 3:22:44 PM

#### Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.		
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>☑ Proposed schedule for remediation (note if remediation plan tin</li> </ul>	12(C)(4) NMAC		
Deferral Requests Only: Each of the following items must be con-	nfirmed 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	n, the environment, or groundwater.		
	OGD.		
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: M Sich	Date: 12-3-2020		
email: bsinclair@talonlpe.com	Telephone: 575-746-8768		
OCD Only			
Received by: Chad Hensley	Date:03/1/2021		
	Approval		
Signature: Chad Hend	Date: 03/01/2021		

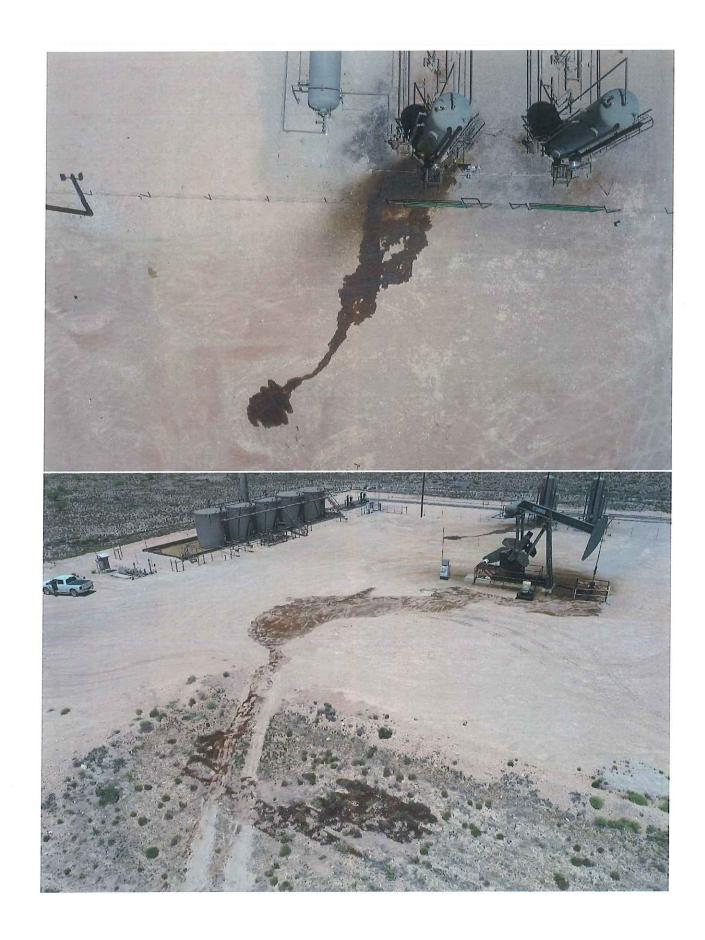


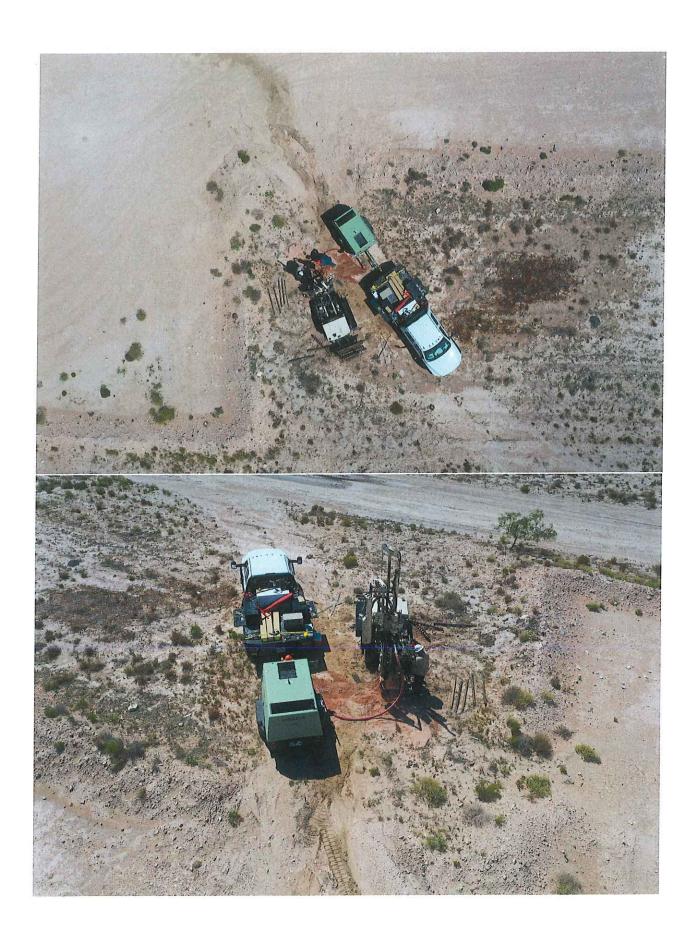
## APPENDIX IV

## 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

OrderNo.: 2006054

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

RE: Bootes 15 Fed Com 1H

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

Received by OCD: 12/9/2020 4:24:21 PM

**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 Da

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 OR	GANICS					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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- 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: E

: 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 O	RGANICS					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.
- 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
- Sample pH Not In Range
- RL Reporting Limit

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 Unit	s DF	' Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	ND	60	mg/K	g 20	6/2/2020 8:33:35 PM	52833
EPA METHOD 8015M/D; DIESEL RANGE ORG	BANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/K	g 1	6/2/2020 12:16:00 PM	52815
Motor Oil Range Organics (MRO)	ND	49	mg/K	g 1	6/2/2020 12:16:00 PM	52815
Surr: DNOP	92.2	55.1-146	%Red	1	6/2/2020 12:16:00 PM	52815
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/K	g 1	6/2/2020 1:12:13 PM	G69333
Surr: BFB	82.9	66.6-105	%Red	: 1	6/2/2020 1:12:13 PM	G69333
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/K	g 1	6/2/2020 1:12:13 PM	B69333
Toluene	ND	0.047	mg/K	g 1	6/2/2020 1:12:13 PM	B69333
Ethylbenzene	ND	0.047	mg/K	g 1	6/2/2020 1:12:13 PM	B69333
Xylenes, Total	ND	0.094	mg/K	g 1	6/2/2020 1:12:13 PM	B69333
Surr: 4-Bromofluorobenzene	101	80-120	%Red	: 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

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Lab Order 2006054

6/2/2020 1:35:50 PM

6/2/2020 1:35:50 PM

6/2/2020 1:35:50 PM

B69333

B69333

B69333

Date Reported: 6/5/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project:

Lab ID:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Bootes 15 Fed Com 1H

2006054-004

Client Sample ID: B-1 4' R

mg/Kg

mg/Kg

%Rec

Collection Date: 5/29/2020 9:23:00 AM Received Date: 6/2/2020 9:25:00 AM

RL Qual Units DF Date Analyzed Batch Analyses Result Analyst: CAS **EPA METHOD 300.0: ANIONS** 6/2/2020 8:46:00 PM NĐ 52833 60 mg/Kg 20 Analyst: JME EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 6/2/2020 12:19:32 PM 52815 Diesel Range Organics (DRO) 19 9.7 mg/Kg Motor Oil Range Organics (MRO) ND 48 mg/Kg 6/2/2020 12:19:32 PM 52815 98.0 %Rec 6/2/2020 12:19:32 PM 52815 55.1-146 Surr: DNOP **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 6/2/2020 1:35:50 PM G69333 ND Gasoline Range Organics (GRO) 3.6 mg/Kg 1 G69333 6/2/2020 1:35:50 PM Surr: BFB 89.8 66,6-105 %Rec Analyst: NSB **EPA METHOD 8021B: VOLATILES** 6/2/2020 1:35:50 PM B69333 0.018 Benzene ND mg/Kg ND 0.036 6/2/2020 1:35:50 PM B69333 mg/Kg Toluene

0.036

0.072

80-120

0.037

ND

105

Matrix: MEOH (SOIL)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RŁ. Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H Project:

Lab ID: 2006054-005 Client Sample ID: B-2 0-1'

Collection Date: 5/29/2020 9:47:00 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	61	60		mg/Kg	20	6/2/2020 9:23:14 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					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.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RŁ Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project:

Lab ID:

Bootes 15 Fed Com 1H

2006054-006

Client Sample ID: B-2 2'

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

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

Analyses	Result	RL	Qual L	Jnits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	110	60	n	ng/Kg	20	6/2/2020 9:35:39 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.7	n	ng/Kg	1	6/2/2020 12:43:47 PM	52815
Motor Oil Range Organics (MRO)	ND	48	n	ng/Kg	1	6/2/2020 12:43:47 PM	52815
Surr: DNOP	86.9	55.1-146	9	%Rec	1	6/2/2020 12:43:47 PM	52815
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	n	ng/Kg	1	6/2/2020 2:23:07 PM	G69333
Surc: BFB	0.08	66.6-105	9/	6Rec	1	6/2/2020 2:23:07 PM	G69333
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024	n	ng/Kg	1	6/2/2020 2:23:07 PM	B69333
Toluene	ND	0.048	n	ng/Kg	1	6/2/2020 2:23:07 PM	B69333
Ethylbenzene	ND	0.048	n	ng/Kg	1	6/2/2020 2:23:07 PM	B69333
Xylenes, Total	ND	0.095	m	ng/Kg	1	6/2/2020 2:23:07 PM	B69333
Surr: 4-Bromofluorobenzene	100	80-120	%	6Rec	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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - 8 % 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
- Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-2 3'R

Project: Bo

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 ORG	GANICS				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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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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

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

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 Quanitative Limit
- 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Client Sample ID: B-3 2'

%Rec

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Surr: 4-Bromofluorobenzene

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

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

133

80-120

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**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

100				~			
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 OR	GANICS					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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**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 OR	GANICS				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,
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-012

Client Sample ID: B-4 2'

Collection Date: 5/29/2020 10:15:00 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	61	60		mg/Kg	20	6/2/2020 10:50:06 PM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-4 3' CLIENT: Talon Artesia

Collection Date: 5/29/2020 10:15:00 AM Bootes 15 Fed Com 1H Project: 2006054-013 Matrix: MEOH (SOIL) Received Date: 6/2/2020 9:25:00 AM Lab ID:

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 ORG	GANICS				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.
- Sample Diluted Due to Matrix
- D Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank В
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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**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 ORG	ANICS				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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- 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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**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 OF	RGANICS				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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab ID:

Client Sample ID: B-5 2'

Bootes 15 Fed Com 1H Project: 2006054-016

Collection Date: 5/29/2020 10:28:00 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	4000	150	mg/Kg	50	6/3/2020 7:56:08 AM	52833
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				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.
- Ð Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2006054-017

Project:

Client Sample ID: B-5 3'

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

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 ORG	GANICS					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

Matrix: SOIL

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
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL
  - % Recovery outside of range due to dilution or matrix

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-019

Client Sample ID: B-6 0-1'

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

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 OR	GANICS					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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-020

Client Sample ID: B-6 2'

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

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

Analyses	Result	RL Qu	al 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 ORG	ANICS				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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Limit

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Released to Imaging: 3/1/2021 3:22:44 PM

**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

Result	RL	Qual Uni	ts DI	7 Date Analyzed	Batch
				Analyst	CAS
550	60	mg/	Kg 20	6/3/2020 2:58:17 AM	52834
RGANICS				Analyst	JME
ND	9.8	mg/	Kg 1	6/2/2020 6:12:58 PM	52816
ND	49	mg/	Kg 1	6/2/2020 6:12:58 PM	52816
98.3	55.1-146	%R	ec 1	6/2/2020 6:12:58 PM	52816
				Analyst	RAA
ND	4.9	mg/	Kg 1	6/3/2020 10:27:42 AM	52830
81.8	66.6-105	%R	ec 1	6/3/2020 10:27:42 AM	52830
				Analyst	RAA
ND	0.025	mg/	Kg 1	6/3/2020 10:27:42 AM	52830
ND	0.049	mg/	Kg 1	6/3/2020 10:27:42 AM	52830
ND	0.049	mg/	Kg 1	6/3/2020 10:27:42 AM	52830
0.14	0.099	mg/	Kg 1	6/3/2020 10:27:42 AM	52830
101	80-120	%R	ec 1	6/3/2020 10:27:42 AM	52830
	550 RGANICS ND ND 98.3 ND 81.8 ND ND ND ND ND ND	550 60  RGANICS  ND 9.8  ND 49  98.3 55.1-146  ND 4.9  81.8 66.6-105  ND 0.025  ND 0.049  ND 0.049  0.14 0.099	550 60 mg/  RGANICS  ND 9.8 mg/ ND 49 mg/ 98.3 55.1-146 %Rd  ND 4.9 mg/ 81.8 66.6-105 %Rd  ND 0.025 mg/ ND 0.049 mg/ ND 0.049 mg/ 0.14 0.099 mg//	550 60 mg/Kg 20  RGANICS  ND 9.8 mg/Kg 1  ND 49 mg/Kg 1  98.3 55.1-146 %Rec 1  ND 4.9 mg/Kg 1  81.8 66.6-105 %Rec 1  ND 0.025 mg/Kg 1  ND 0.049 mg/Kg 1  ND 0.049 mg/Kg 1  ND 0.049 mg/Kg 1  ND 0.049 mg/Kg 1	Analyst  550 60 mg/Kg 20 6/3/2020 2:58:17 AM  RGANICS  Analyst  ND 9.8 mg/Kg 1 6/2/2020 6:12:58 PM  ND 49 mg/Kg 1 6/2/2020 6:12:58 PM  98.3 55.1-146 %Rec 1 6/2/2020 6:12:58 PM  Analyst  ND 4.9 mg/Kg 1 6/3/2020 10:27:42 AM  81.8 66.6-105 %Rec 1 6/3/2020 10:27:42 AM  Analyst  ND 0.025 mg/Kg 1 6/3/2020 10:27:42 AM  ND 0.049 mg/Kg 1 6/3/2020 10:27:42 AM

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

**Lab ID:** 2006054-022

Client Sample ID: B-6 4'R

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

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 ORG	ANICS				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

Matrix: SOIL

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 Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054 Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-7 0-1'

CLIENT: Talon Artesia Collection Date: 5/29/2020 11:27:00 AM Bootes 15 Fed Com 1H Project:

Received Date: 6/2/2020 9:25:00 AM Matrix: SOIL 2006054-023 Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chłoride	390	60	mg/Kg	20	6/3/2020 3:23:06 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				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.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-024

Client Sample ID: B-7 2'

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

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 OR	GANICS					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

Matrix: SOIL

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
- Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-025

Client Sample ID: B-7 3'R

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

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 OR	GANICS					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	1					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

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2006054-026

Project:

Client Sample ID: B-8 0-1

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

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 ORG	ANICS					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

Matrix: SOIL

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

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-027

Client Sample ID: B-8 2'

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

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 OR	GANICS				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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2006054-028

Project:

Client Sample ID: B-8 3'

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

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 ORG	GANICS				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

Matrix: SOIL

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
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-029

Client Sample ID: B-8 4'R

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

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 ORG	SANICS					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	0.88	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

Matrix: SOIL

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

### Qualifiers:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit
- Page 29 of 39

Released to Imaging: 3/1/2021 3:22:44 PM

**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006054-030

Client Sample ID: B-9 0-1'

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

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	4100	150		mg/Kg	50	6/3/2020 8:58:11 AM	52834
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	1400	97		mg/Kg	10	6/2/2020 10:41:26 PM	52816
Motor Oil Range Organics (MRO)	760	490		mg/Kg	10	6/2/2020 10:41:26 PM	52816
Surr: DNOP	0	55.1-146	S	%Rec	10	6/2/2020 10:41:26 PM	52816
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	29	4.7		mg/Kg	1	6/3/2020 2:23:34 PM	52830
Surr: BFB	249	66.6-105	s	%Rec	1	6/3/2020 2:23:34 PM	52830
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	0.027	0.024		mg/Kg	1	6/3/2020 2:23:34 PM	52830
Toluene	0.23	0.047		mg/Kg	1	6/3/2020 2:23:34 PM	52830
Ethylbenzene	0.98	0.047		mg/Kg	1	6/3/2020 2:23:34 PM	52830
Xylenes, Total	5.1	0.095		mg/Kg	1	6/3/2020 2:23:34 PM	52830
Surr: 4-Bromofluorobenzene	130	80-120	S	%Rec	1	6/3/2020 2:23:34 PM	52830

Matrix: SOIL

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
- Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2006054

Date Reported: 6/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab ID: 2006054-031

Project:

Bootes 15 Fed Com 1H

Matrix: SOIL

Client Sample ID: B-9 2'

Collection Date: 5/29/2020 1:00:00 PM 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.
- Sample Diluted Due to Matrix Đ
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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**Analytical Report** 

Lab Order 2006054

Date Reported: 6/5/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2006054-032

Project:

Client Sample ID: B-9 3'

Collection Date: 5/29/2020 1:00:00 PM Received Date: 6/2/2020 9:25:00 AM

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

Matrix: SOIL

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

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# Received by OCD: 12/9/2020 4:24:21 PM

# **OC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006054

05-Jun-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Result ND

Result

Sample ID: MB-52833

Prep Date: 6/2/2020

SampType: mblk Batch ID: 52833

1.5

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Analysis Date: 6/2/2020

RunNo: 69353

SeqNo: 2405269

Units: mg/Kg

HighLimit

%RPD **RPDLimit** 

Qual

Analyte Chloride

Sample ID: LCS-52833

SampType: lcs Batch ID: 52833 TestCode: EPA Method 300.0: Anions

%REC

93.3

RunNo: 69353

LowLimit

110

Analyte

Chloride

Client ID: LCSS

Prep Date: 6/2/2020

Analysis Date: 6/2/2020

SeqNo: 2405270

Units: mg/Kg HighLimit

%RPD

**RPDLimit** 

Qual

Sample ID: MB-52834

SampType: mblk

**PQL** 

1.5

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Sample ID: LCS-52834

Prep Date: 6/2/2020

Client ID: LCSS

Batch ID: 52834

ND

14

RunNo: 69353

Units: mg/Kg

Prep Date: 6/2/2020

Analysis Date: 6/3/2020

SeqNo: 2405299

HighLimit

%RPD **RPDLimit** 

Qual

Analyte Chloride

**PQL** 1.5

TestCode: EPA Method 300.0: Anions

RunNo: 69353

SeqNo: 2405300

Units: mg/Kg

Qual

Analyte

Analysis Date: 6/3/2020

Batch ID: 52834

SampType: Ics

SPK value SPK Ref Val

SPK value SPK Ref Val

15.00

%REC

LowLimit

HighLimit

%RPD

**RPDLimit** 

Chloride

1.5

15.00

0

93.6

110 90

## Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix

Practical Quanitative Limit

Holding times for preparation or analysis exceeded н Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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# Received by OCD: 12/9/2020 4:24:21 PM

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006054 05-Jun-20

Client:

Talon Artesia

Project: Bootes 1	5 Fed Con	1 H								
Sample ID: MB-52816	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: <b>52</b>	816	i	RunNo: 6	9321	4			
Prep Date: 6/2/2020	Analysis [	Date: 6	/2/2020	,	SeqNo: 2	403981	Units: mg/l	<b>K</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		BORNEY						
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	55.1	146			
Sample ID: LCS-52816	Samp	Гуре: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batc	h ID: <b>52</b>	816	F	RunNo: 6	9321				
Prep Date: 6/2/2020	Analysis [	Date: <b>6</b> /	/2/2020	5	SeqNo: 2	403982	Units: mg/l	(g		
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	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	h ID: <b>52</b>	815	F	RunNo: 6	9320				
Prep Date: 6/2/2020	Analysis D	Date: 6/	2/2020	ξ	SeqNo: 2	404032	Units: mg/k	(g		
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	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	o Organics	
Client ID: LCSS	Batcl	1D: <b>52</b>	815	F	RunNo: 6	9320				
Prep Date: 6/2/2020	Analysis D	oate: 6/	2/2020	5	SeqNo: 24	404033	Units: mg/k	(g		
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	Sampī	ype: MS	<del></del>	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: B-6 3'	Batcl	n ID: <b>52</b>	816	7	RunNo: 6	9321				
Prep Date: 6/2/2020	Analysis D	ate: <b>6/</b>	2/2020	8	SeqNo: 24	404572	Units: mg/K	(g		
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			
Dieses Manige Organico (Di VO)	70				91.3	55.1	146			

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Client:

Talon Artesia

**QC SUMMARY REPORT** 

Project:

Bootes 15 Fed Com 1H

Hall Environmental Analysis Laboratory, Inc.

Sample ID: 2006054-021AMSD
Client ID: B-6 3'

SampType: MSD

TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 52816

RunNo: 69321

Prep Date: 6/2/2020 Analysis Date: 6/2/2020

SeqNo: 2404573 Units: mg/Kg

Trep bate. 6/2/2020	, many oro a	outo. Of	Z, LONG	_			•	-		
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:

Received by OCD: 12/9/2020 4:24:21 PM

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# Received by OCD: 12/9/2020 4:24:21 PM

# 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	Sampi	ype: Mi	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batc	n ID: G6	9333	F	RunNo: 6	9333					
Prep Date:	Analysis E	ate: 6/	2/2020	S	SeqNo: 2	404583	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 Icsb	Samp1	Гуре: LC	s	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batcl	h ID: G6	9333	F	RunNo: 6	9333				
Prep Date:	Analysis D	Date: 6/	2/2020	9	SeqNo: 2	404584	Units: mg/F	(g		
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			
Sum: BFB	930		1000		92.5	66.6	105			

Sample ID: mb-52830	SampT	ype: MI	3LK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	n ID: <b>52</b>	830	F	tunNo: 6	9340				
Prep Date: 6/2/2020	Analysis D	ate: 6/	3/2020	S	SeqNo: 2	405514	Units: mg/K	(g		
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	SampT	ype: MS	3	Tes	tCode: El	e: EPA Method 8015D: Gasoline Range						
Client ID: B-1 3'	Batch	h ID: <b>G6</b>	9333	F	RunNo: 6	9340						
Prep Date:	Analysis D	Date: 6/	3/2020	5	SeqNo: 2	406060	Units: mg/K	(g				
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	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: B-1 3'	Batcl	n ID: Ge	9333	F	RunNo: 6	9340				
Prep Date:	Analysis E	)ate: 6/	3/2020	5	SeqNo: 2	406061	Units: mg/K	(g		
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	
Sum: BFB	990		942.5		105	66.6	105	0	0	

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 S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- 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 1H

Sample ID: Ics-52830	Samp	Type: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batc	h ID: <b>52</b>	830	F	RunNo: 6	9340				
Prep Date: 6/2/2020	Analysis E	Date: <b>6</b> /	3/2020	8	406062	Units: mg/K	(g			
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:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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# Received by OCD: 12/9/2020 4:24:21 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006054

05-Jun-20

Client:

Talon Artesia

Project: Bootes 1	5 Fed Con	n 1H								
Sample ID: mb1	Samp	Туре: Мі	BLK	Tes	tCode: E	PA Method	l 8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: Be	9333	F	RunNo: 6	9333				
Prep Date:	Analysis [	Date: 6	2/2020	Ş	SeqNo: 2	404606	Units: mg/h	€g		
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	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>B</b> 6	9333	F	RunNo: 6	9333				
Prep Date:	Analysis [	Date: 6/	2/2020	5	SeqNo: 2	404607	Units: mg/k	(g		
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	Sampl	Гуре: МЕ	BLK	Tes	Code: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: <b>52</b>	830	F	RunNo: 6	9340				
Prep Date: 6/2/2020	Analysis E	Date: 6/	3/2020	S	SeqNo: 2	405532	Units: mg/K	(g		
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	SampT	ype: MS	5	Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID: B-1 2'	Batch	h <b>I</b> D: <b>B6</b>	9333	R	tunNo: 6	9340				
Prep Date:	Analysis D	Date: 6/	3/2020	S	eqNo: 24	406071	Units: mg/K	g		
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			
					4 4 179	20	400			

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix

Surr: 4-Bromoffuorobenzene

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

0.99

- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

117

80

120

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

0.8446

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: 2006054-002ams	d Samp	Type: MS	SD.	Tes	tCode: El	tiles				
Client ID: B-1 2'	Batc	h ID: <b>B6</b>	9333	F	RunNo: 6	9340				
Prep Date:	Analysis [	alysis Date: 6/3/2020 SeqNo: 2406					Units: mg/K	(g		
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	
Surr: 4-Bromofluorobenzene	0.99	0.99 0.8446			118	80	120	0	0	

Sample ID: LCS-52830	Samp <sup>-</sup>	Гуре: LC	S	Tes	iles					
Client ID: LCSS	Batc	Batch ID: 52830			RunNo: 6	9340				
Prep Date: 6/2/2020	Analysis E	Date: <b>6</b> /	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			
Foluene Foluene	0.95	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Kylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromoffuorobenzene	1.0	1.0 1.000			105	80	120			

### Qualifiers:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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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: 2006054		RcptNo:	1
Received By:	Juan Rojas	6/2/2020 9:25	i:00 AM	Jones J.		
Completed By:	Isaiah Ortiz	6/2/2020 10:0	3:00 AM	: J, C	) <u>/</u>	
Reviewed By: )	DAD 6/2/20					
Chain of Cust	<u>tody</u>					
1. Is Chain of Cu	istody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the s	sample delivered?		<u>Courier</u>			
<u>Log In</u> 3. Was an attemp	pt made to cool the san	ples?	Yes 🗹	No 🗌	na 🗆	
4. Were all sample	les received at a tempe	rature of >0° C to 6.0°	C Yes 🔽	No 🗌	na 🗆	
5. Sample(s) in p	roper container(s)?		Yes 🔽	No 🗌		
6. Sufficient samp	ole volume for indicated	test(s)?	Yes 🔽	No 🗌		
7. Are samples (e	except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗌		
8. Was preservati	ive added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at lea	ast 1 vial with headspace	e <1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🔽	/
10. Were any sam	ple containers received	broken?	Yes	No 🗹	# of preserved	
• •	k match bottle labels? ncies on chain of custoc	ly)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >	12 unless noted)
	orrectly identified on Cha		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what	analyses were requeste	d?	Yes 🔽	No 🗌		alcoloc
	g times able to be met? stomer for authorization		Yes 🗹	No 🗌	Ohecked by: $\mathcal{G}$	m 2/6/20
Special Handlii	ng (if applicable)					
15.Was client noti	ified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person N	Votified:	and a section of the	Date:	and the second and the second second	:	
By Whon	n: j		Via: 🦳 eMail 🔲 F	Phone 🗌 Fax	☐ In Person	
Regardin			egi, ga geriar, daniga ga garandar da garandar (laguar et esperiar et esperiar et esperiar et en el caracter e En antaren el travel de la companyon en alternatura esperiar el caracter el caracter el caracter el caracter e			
Client Ins	structions:					
16. Additional rem	narks:					
17. <u>Cooler Inform</u> Cooler No	nation Temp °C Condition 2.5 Good	Seal Intact   Seal Not Present	No Seal Date	Signed By		

Received by OCD: 12/9/2020 4:24:21 PM

Chain-of-Custody Record	Turn-Around Time:	
Client: Ch / P E	Standard MRush 2 4 hr	
	ect Name:	
	\ \ !	₩
YOR W. Texas AVE	15 Fed (000 17	4901 Hawkins NE - Albuquerque, NM 87109
Artesia, NM 88210	Froject #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: Sフ S- フ Y- トアノスタ	700794.343.01	Analysis Request
email or Fax#:		ťΟ
QA/QC Package:	208	S 'V
☐ Standard ☐ Level 4 (Full Validation)		PCI
Accreditation:   Az Compliance  NELAC Other	Brandon Sinclair	
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Date Time Matrix Sample Name	# Type <b>1006054</b> (#)	808 EDE (CL) PAH (CL) (CL) (CL)
5-29-2009:23 50:   B-1 0-1	9	
59.23 6-17		
09.23 8-1.3	- 003	
09:23 B-14'R	781	
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09.47 8-2 2	300 000 000 000 000	
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10:00 8-3 3 R	910-	
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Date: Time: Relinguished by:	Received by: Via: Date Time bs:	nclair Qtalon loc. com
11/20 1400 11	Mrs covier 6/2/10 975	
		THE PARTY OF THE P

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.

Alon (%)  Address: 408 W Texas Ave (%)  Sta MM 88210  Eax#:  ackage:	Q	Time	***				m V S S S S S S S S S S S S S S S S S S	
Foreign   Fore	Talon Los		2 2 2				LABORAL	740
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Sample: Brasdon   David Ack inc   Complement   Compleme	C Packagè:			ЭHМ	SV	)S ' <sup>†</sup>	uəsc	
Contain   Cont		David Aokins		/ 0	VIS0	'Od	JA\Jı	
Time   Matrix   Sample   Name   Forestrative   Coolers   Lange   Lange   Lange   Coolers   Lange   Lange   Lange   Coolers   Lange   Lange   Lange   Lange   Lange   Lange   Lange   Lange   Coolers   Lange		জ	C(4.1%	4a / c		' <sup>z</sup> ON		
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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,

Andy Freeman

Received by OCD: 12/9/2020 4:24:21 PM

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

Project: Bootes 15 Fed Com 1H

Lab ID: 2006942-001

Client Sample ID: B-10 0-1'

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:	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 ORGA	NICS					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
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						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

Matrix: SOIL

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 19

**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006942-002

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 Ur	rits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	290	60	mg	g/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	g/Kg	1	6/20/2020 5:58:07 PM	53155
Surr: BFB	97.6	70-130	%F	Rec	1	6/20/2020 5:58:07 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	BRM
Diesel Range Organics (DRO)	180	9.8	mg	g/Kg	1	6/20/2020 1:03:48 PM	53169
Motor Oil Range Organics (MRO)	120	49	mg	g/Kg	1	6/20/2020 1:03:48 PM	53169
Surr: DNOP	122	55.1-146	%F	Rec	1	6/20/2020 1:03:48 PM	53169
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	DJF
Benzene	ND	0.025	mg	J/Kg	1	6/20/2020 5:58:07 PM	53155
Toluene	ND	0.050	mg	J/Kg	1	6/20/2020 5:58:07 PM	53155
Ethylbenzene	ND	0.050	mg	ı/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	%F	Rec	1	6/20/2020 5:58:07 PM	53155
Surr: 4-Bromofluorobenzene	91.9	70-130	%F	Rec	1	6/20/2020 5:58:07 PM	53155
Surr: Dibromofluoromethane	115	70-130	%F	Rec	1	6/20/2020 5:58:07 PM	53155
Surr: Toluene-d8	103	70-130	%F	Rec	1	6/20/2020 5:58:07 PM	53155

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- B Analyte detected in the associate

  Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 19

**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006942-003

Client Sample ID: B-10 3'

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	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 ORGA	NICS				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

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- Analyte detected in the associated
   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	53218
EPA METHOD 8015D MOD: GASOLINE RANGI	Ε				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 ORG.	ANICS				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 LIS	т				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.
- 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 19

**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Project: Lab ID:

2006942-005

Matrix: SOIL

Client Sample ID: B-11 0-1'

Collection Date: 6/17/2020 11:26:00 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:	JMT
Chloride	4200	150		mg/Kg	50	6/23/2020 6:20:37 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE	<b>=</b>					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 ORGA	ANICS					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	Т					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.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

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Analytical Report

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2006942-006

Project:

Client Sample ID: B-11 2'

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

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

Analyses	Result	RL	Qual Uni	ts DI	F 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	%R	ec 1	6/21/2020 2:16:28 PM	53155
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				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	%R	ec 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	%R	ec 1	6/21/2020 2:16:28 PM	53155
Surr: 4-Bromofluorobenzene	72.3	70-130	%R	ec 1	6/21/2020 2:16:28 PM	53155
Surr: Dibromofluoromethane	106	70-130	%R	ec 1	6/21/2020 2:16:28 PM	53155
Surr: Toluene-d8	104	70-130	%R	ec 1	6/21/2020 2:16:28 PM	53155

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Date Reported: 6/24/2020

Lab Order 2006942

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-11 3'R

Bootes 15 Fed Com 1H Project:

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

Lab ID: 2006942-007

CLIENT: Talon Artesia

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 ORGA	NICS					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.
- Sample Diluted Due to Matrix
- D Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank В
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006942-008 Client Sample ID: B-12 0-1'

Collection Date: 6/17/2020 11:47:00 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	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 ORGA	NICS					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

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Limit

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**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2006942-009

Client Sample ID: B-12 2'

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

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: MRA
Chloride	63	60		mg/Kg	20	6/22/2020 3:50:41 PM	53218
EPA METHOD 8015D MOD: GASOLINE RANGE						Analys	: 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 ORGA	NICS					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

Matrix: SOIL

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 Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- Analyte detected in the associated Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Project: Lab ID:

2006942-010

Matrix: SOIL

Client Sample ID: B-12 3'

Collection Date: 6/17/2020 11:47:00 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	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 ORGA	NICS					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.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- RLReporting Limit

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**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 1H

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

Lab ID: 2

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 RANG	E					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 ORG	ANICS					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 LIS	Т					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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2006942

Date Reported: 6/24/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Lab ID:

2006942-012

Bootes 15 Fed Com 1H

Matrix: SOIL

Client Sample ID: B-13 0-1'

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

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 ORGAI	NICS					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.
- Sample Diluted Due to Matrix
- D Н Holding times for preparation or analysis exceeded
- $N\!D$ Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- RLReporting Limit

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**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 ORGA	NICS				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,

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

D Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Native above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit

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## **OC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006942

24-Jun-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Sample ID: MB-53218

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 53218

Result

Result

15

RunNo: 69820

Units: mg/Kg

HighLimit

Prep Date: 6/22/2020 Analysis Date: 6/22/2020 PQL

SeqNo: 2424460

**RPDLimit** Qual

Analyte Chloride

ND

Sample ID: LCS-53218

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 53218

RunNo: 69820

Prep Date: 6/22/2020 Analysis Date: 6/22/2020

**PQL** 

1.5

SeqNo: 2424461

Units: mg/Kg

HighLimit %RPD

%RPD

**RPDLimit** Qual

Analyte Chloride

TestCode: EPA Method 300.0: Anions

%REC

97.2

110 90

Sample ID: MB-53222

Prep Date: 6/22/2020

Client ID: PBS

SampType: mblk Batch ID: 53222

Analysis Date: 6/22/2020

1.5

RunNo: 69820

SPK value SPK Ref Val %REC LowLimit

LowLimit

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val

SeqNo: 2424491

%RPD

%RPD

Chloride

ND

SPK value SPK Ref Val %REC LowLimit

15.00

HighLimit

**RPDLimit** 

Qual

Sample ID: LCS-53222

SampType: Ics

TestCode: EPA Method 300.0: Anions

RunNo: 69820

Prep Date:

Client ID: LCSS

6/22/2020

Batch ID: 53222

Analysis Date: 6/22/2020

SeqNo: 2424492

Units: mg/Kg

HighLimit

**RPDLimit** Qual

Analyte Chloride

POL Result 14 1.5

SPK value SPK Ref Val 15.00

%REC 96.1

90

LowLimit

110

### Qualifiers:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range

RL Reporting Limit Page 14 of 19

# Received by OCD: 12/9/2020 4:24:21 PM

# 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	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	1D: <b>53</b>	169	F	RunNo: 6	9757						
Prep Date: 6/19/2020	Analysis D	ate: 6/	19/2020	SeqNo: 2421977			Units: mg/K					
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	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	1D: <b>53</b> ′	169	F	RunNo: 6	9757						
Prep Date: 6/19/2020	Analysis D	ate: 6/	19/2020	9	SeqNo: 2	421979	Units: mg/K	g				
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	Sampl	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	n ID: <b>53</b>	182	F	RunNo: 6	9768						
Prep Date: 6/19/2020	Analysis D	ate: 6/	20/2020	5	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	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: <b>53</b>	184	F	RunNo: 6	9768				
Prep Date: 6/19/2020	Analysis D	ate: 6/	20/2020	S	SeqNo: 2	422439	Units: %Re	С		
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	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	PBS Batch ID: 53182 RunN					9768					
Prep Date: 6/19/2020	Analysis D	)ate: 6/	20/2020	5	SeqNo: 2	422441	Units: mg/K	(g			
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.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 15 of 19

# Received by OCD: 12/9/2020 4:24:21 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006942

24-Jun-20

Qual

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

SeqNo: 2422442

Units: %Rec

Analysis Date: 6/20/2020

%RPD

**RPDLimit** 

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Surr: DNOP 14 10.00 137 55.1 146

### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 16 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	Samp	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: 53	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis [	Date: 6/.	20/2020	8	SeqNo: 2422516		Units: mg/K	(g		
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: Ics-53155	Samp	Type: LC	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batc	h ID: <b>53</b>	155	F	RunNo: 6						
Prep Date: 6/18/2020	Analysis I	Date: <b>6/</b>	20/2020	8	SeqNo: 2	422517	Units: mg/K	(g			
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	Samp	Type: MS	64	Tes	tCode: <b>E</b> l	PA Method	8260B: Vola	tiles Short	List	
Client ID: B-10 0-1'	Batc	h ID: <b>53</b>	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis [	Date: 6/	20/2020	8	SeqNo: 2	422519	Units: mg/k	ζg		
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:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- D
- Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- 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	Samp	Гуре: М.	SD4				8260B: Volat	tiles Short	List	
Client ID: B-10 0-1'	Batc	h ID: <b>53</b> '	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis [	Date: 6/	20/2020	8	SeqNo: 2	422520	Units: mg/K	ζg		
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
  Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Released to Imaging: 3/1/2021 3:22:44 PM

# Received by OCD: 12/9/2020 4:24:21 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2006942

24-Jun-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Project: Bootes i	5 FCu Coi	11 111								
Sample ID: mb-53155	Samp	Type: MI	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Bato	h ID: <b>53</b>	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis I	Date: 6/	20/2020	5	SeqNo: 2	422554	Units: mg/l	<b>⟨</b> g		
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: Ics-53155	Samp	Гуре: <b>L</b> C	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batc	h ID: 53	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis [	Date: 6/	20/2020	5	SegNo: 2	422555	Units: mg/l	<b>⟨</b> g		
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	Samp	Гуре: М	3	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: B-10 2'	Batc	h ID: <b>53</b>	155	F	RunNo: 6	9776				
Prep Date: 6/18/2020	Analysis I	Date: 6/	20/2020	8	SeqNo: 24	422558	Units: mg/h	(g		
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: 2006942-002ams	d Sampi	ype: MS	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline l	Range	
Client ID: B-10 2'	Batci	h ID: <b>53</b> '	155	F	RunNo: 69	9776				

		•									
Client ID: B	-10 2'	Batch	ID: <b>53</b>	155	F	RunNo: 6	9776				
Prep Date:	6/18/2020	Analysis D	ate: 6/	20/2020	5	SeqNo: 2	422559	Units: mg/K	(g		
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

QL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

tL Reporting Limit

Page 19 of 19





Holl 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 Nu	mber: 2006942		RcptNo: 1
Received By: Isaiah Ortiz	6/18/2020 11:10:	00 AM	I O	<del>/</del>
Completed By: Juan Rojas	6/18/2020 11:22:		In O	•
Reviewed By: SPA 6.18.		50 7 dii		
, )/(, * *				
Chain of Custody				
<ol> <li>Is Chain of Custody complete?</li> </ol>		Yes 🗹	No 🗀	Not Present 📙
2. How was the sample delivered?		Courier		
<u>Log In</u>		,,,,,,,	🖸	[
<ol><li>Was an attempt made to cool the s</li></ol>	amples?	Yes 🗹	No 🗌	NA 🗍
4. Were all samples received at a tem	perature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient sample volume for indicat	ed test(s)?	Yes 🔽	No 🗆	
7. Are samples (except VOA and ONG	6) properly preserved?	Yes 🔽	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗔
9. Received at least 1 vial with headsp	ace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
10. Were any sample containers receiv	ed broken?	Yes 🗆	No 🗹	# of preserved
11. Does paperwork match bottle labels	2	Yes 🔽	No 🗆	bottles checked for pH:
(Note discrepancies on chain of cus		103 0	, —	(€2 or >12 unless noted)
12. Are matrices correctly identified on	Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were reque	sted?	Yes 🗹	No ∐	1
<ol> <li>Were all holding times able to be me (If no, notify customer for authorizat</li> </ol>		Yes 🗹	No 📙	Checked by: MACHES
Special Handling (if applicable	2			
15. Was client notified of all discrepand	ies with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date	e <b> </b>		
By Whom:	Via:	eMail I	Phone 🗌 Fax [	In Person
Regarding:		No.		
Client Instructions:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
16. Additional remarks:				
17. Cooler Information Cooler No Temp C   Condit	ion   Seal Intact   Seal No	Seal Date	Signed By	
Cooler No Temp °C Condit	ion Gearmach Gear No	Ocal Date	Jigricu Ly	
2 1.1 Good		<b></b>		

T U	ain-	OF-C	Chain-of-Custody Record	Turn-Around 7	Time: 2-	70 0 70				1							
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Phone #: 5	2	7-74	6-8768	700794	34301						ď	malys	is Re	allysis Request			
email or Fax株:	ax来:			Project Manag	ager:				<b>!</b>				(1)				
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Accreditation	dion	(		 	randon S	'n clair											(1
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□ EDD (Type)	Type)_			Sample Temp	perature:	14-8-7.	1,21)								·O/		οΥ
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1/1/20 1900	8			9	COUNT	2 8 19	9									6	N
<u> </u>	ecessary,	samples suk	If necessary, samples submitted to Hall Environmental may be subcontracted to other	R	predited laboratories	This ser	les as notice of this possibility. Any sub-contracted data will be clearly notated	ossibility.	Anv St	n-contrac	ted data	will be c	learly no	no batet	he analyling	al rannet	7

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH (Method 418.1)  EDB (Method 504.1)  RCRA 8 Metals  Anions (F <sub>1</sub> O <sub>1</sub> NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )  8081 Pesticides / 8082 PCB's  8260B (VOA)  8270 (Semi-VOA)						2920 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
4901 Hav	BTEX)+ MTBE + TMB's (8021) TPH 8015B (GRO / DRO / MRO)					Remarks:	sossibility. Any sub-c
round Time: \( \alpha = 0 \) a \( \alpha \)  ndard \( \simeq \) Rush  Name:  \[ \begin{align*} \begin{align*} \equiv \text{1.5 Fed Com IH} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Project Manager:    Dav id Ad k in S   Sampler:   Brandon   Cinclair   Sample Temperature:   IZ=0   Collainer     Type and #   Type   Type     Type	jar 160, -013				Date Time	i by:  Date Time  (C) (18/10 1/10)  other accredited laboratories. This serves as notice of this p
Chain-of-Custody Record Turn-Around Tild Tild Tild Tild Tild Tild Tild Til	☐ Level 4 (Full Validation) ☐ Other	50:1 B-13 2 R 402				Relinquished by:	Time: Relinquished by: Received by: Date Time   Received by: Date Tim
Chain-Client: Talob. Mailing Address: Artesial A	email or Fax#:  OA/QC Package:  ☐ Standard  Accreditation  ☐ NELAP  ☐ EDD (Type)  Date Time	6-17-20 12:12		The state of the s		0	Date: Time: V/LT/20 (400)



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

OrderNo.: 2008239

Released to Imaging: 3/1/2021 3:22:44 PM

August 13, 2020

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

FAX:

RE: Bootes 15 Fed Com 1H

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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report** 

Lab Order 2008239

Date Reported: 8/13/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2008239-001

Client Sample ID: B-11 4'

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

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 ORG	GANICS				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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- Charge detected in the associate
   Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**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 U	nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60	m	ng/Kg	20	8/10/2020 7:27:03 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	190	10	m	ng/Kg	1	8/10/2020 12:02:28 PM	54229
Motor Oil Range Organics (MRO)	180	50	m	ıg/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	m	ıg/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	m	ıg/Kg	5	8/7/2020 6:46:12 PM	54224
Toluene	ND	0.25	m	ıg/Kg	5	8/7/2020 6:46:12 PM	54224
Ethylbenzene	ND	0.25	m	g/Kg	5	8/7/2020 6:46:12 PM	54224
Xylenes, Total	ND	0.49	m	g/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.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- NO Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- 3 Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2008239

Date Reported: 8/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2008239-003

Matrix: SOIL

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

Client Sample ID: B-11 8'

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 OR	GANICS					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-Bramofluorobenzene	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
- Value above quantitation range
   Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**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 Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: 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	Ī				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
- 11 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
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** 

Lab Order 2008239

Date Reported: 8/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia

Bootes 15 Fed Com 1H Project:

Lab ID: 2008239-005

Surr: BFB

Client Sample ID: B-12 8'

Collection Date: 8/4/2020 2:00:00 PM Received Date: 8/6/2020 8:00:00 AM

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

Matrix: SOIL

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RL.

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**Analytical Report** 

Lab Order 2008239

Date Reported: 8/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: B-14 0-11

Project:

Bootes 15 Fed Com 1H

Lab ID:

2008239-006

Matrix: SOIL

**Collection Date:** 8/4/2020 12:55:00 PM **Received Date:** 8/6/2020 8:00:00 AM

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

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 Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### **Analytical Report**

Lab Order 2008239

Date Reported: 8/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Lab ID:

2008239-007

Bootes 15 Fed Com 1H

Matrix: SOIL

Client Sample ID: B-14 2'

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

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 ORG	SANICS				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.
- Ð Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQŁ Practical Quantitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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### **Analytical Report**

Lab Order 2008239

Date Reported: 8/13/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2008239-008

Client Sample ID: B-14 3'R

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

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 ORG	SANICS				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
Ethylberizene	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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008239

13-Aug-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Sample ID: MB-54292

SampType: mbik

TestCode: EPA Method 300.0: Anions

Client ID: PBS

LCSS

Batch ID: 54292

RunNo: 70965

Units: mg/Kg

Analyte

Prep Date:

8/10/2020

Analysis Date: 8/10/2020

1.5

SeqNo: 2472350

**RPDLimit** 

Qual

Qual

Chloride

Client ID:

Result

SPK value SPK Ref Val %REC LowLimit PQL

HighLimit

%RPD

Sample ID: LCS-54292

SampType: Ics Batch ID: 54292

RunNo: 70965

TestCode: EPA Method 300.0: Anions

Prep Date:

8/10/2020

Analysis Date: 8/10/2020

SeqNo: 2472351

Units: mg/Kg

%RPD **RPDLimit** 

Analyte

PQL

ND

SPK value SPK Ref Val

%REC LowLimit HighLimit

110

Chloride

Result 14

15.00

1.5

### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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# **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: <b>LCS</b>	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Cflent 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	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO) Surr: DNOP	63 10 50.00 6.6 5.000		130 154	
Sample ID: <b>MB-54229</b>	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) Motor Oil Range Organics (MRO)	ND 10 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: <b>MB-54255</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 54255	RunNo: 70976		
Prep Date: <b>8/7/2020</b>	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: <b>MB-54338</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 54338	RunNo: 71011		
Prep Date: <b>8/11/2020</b>	Analysis Date: 8/12/2020	SeqNo: 2474097	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
iesel Range Organics (DRO)	ND 10			
otor Oil Range Organics (MRO) Surr: DNOP	ND 50 11 10.00	111 30.4	154	
Sample ID: LCS-54338	SampType: <b>LCS</b>	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	
	B II BOL OBY 1	ODE DATE OF DEC. 1 1 1	High imit OVERD	DDDI bulk Out

### Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded

Result

PQL.

- Not Detected at the Reporting Limit
- Practical Quantitative Limit
  % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

HighLimit

%RPD

- Value above quantitation range Е
- Analyte detected below quantitation limits
- Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

Reporting Limit RL

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**RPDLimit** 

Qual

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#:

2008239

13-Aug-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Result

13

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
Allalyto		440 20.4	154
Surr: DNOP	5.6 5.000	113 30.4	101
	5.6 5.000 SampType: MBLK		8015M/D: Diesel Range Organics
Surr: DNOP			

### Qualifiers:

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

Analyte Surr: DNOP

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits

%REC

129

LowLimit

30.4

HighLimit

154

- Sample pH Not In Range
- Reporting Limit RŁ

SPK value SPK Ref Val

10.00

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%RPD

**RPDLimit** 

Qual

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2008239

13-Aug-20

Client:

Talon Artesia

Project:

Bootes 15 Fed Com 1H

Sample ID: Ics-54224	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	n ID: <b>54</b> 2	224	F	RunNo: 7	0921				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	5	SeqNo: 2	470489	Units: mg/K	(g		
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	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: <b>54</b> 2	224	F	RunNo: 7	0921				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	SeqNo: 2	470491	Units: mg/K	g		
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.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - % 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
- L 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	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>54</b> :	224	F	RunNo: <b>7</b> 0	0921				
Prep Date: 8/6/2020	Analysis [	Date: <b>8</b> /	7/2020	8	SeqNo: 2	470537	Units: mg/K	(g		
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	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: <b>54</b> :	224	F	RunNo: 7	0921				
Prep Date: 8/6/2020	Analysis [	Date: 8/	7/2020	S	SeqNo: 2	470539	Units: mg/K	g		
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.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E
- Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range
- 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 Num	ber: 2008239		RcptNo: 1	
Received By:	Juan Rojas	8/6/2020 8:00:00 A	м	Harring		
Completed By:	Juan Rojas	8/6/2020 8:29:33 A		Human G.		
Reviewed By:	0.0	04/20				
Chain of Cus	<u>tody</u>	'				
1, Is Chain of C	ustody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>			_	percong.	<b></b>	
<ol><li>Was an attern</li></ol>	pt made to cool the s	amples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samp	oles received at a temp	perature of >0° C to 6.0°C	Yes  Not From	No ☑ zen	NA 🗀	
5. Sample(s) in p	proper container(s)?		Yes 🔽	No [		
გ. Sufficient sam	ple volume for indicate	ed test(s)?	Yes 🔽	No 🗌		
7. Are samples (e	except VOA and ONG	) properly preserved?	Yes 🗹	No 🗀		
3. Was preservat	ive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial with headspa	ace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	,
0, Were any sam	nple containers receive	ed broken?	Yes 🗆	No 🔽	# of preserved	
	rk match bottle labels' ncies on chain of cust		Yes 🗸	No 🗆	bottles checked for pH:	2 unless noted)
2. Are matrices c	orrectly identified on C	hain of Custody?	Yes 🔽	No 🗆	Adjusted?	
3, Is it clear what	analyses were reques	sted?	Yes 🗹	No 🔲	proportion and the second	110.6
	g times able to be me stomer for authorization		Yes 🔽	No 🗆	Checked by:	7/4 0.0
pecial Handli	ng (if applicable)	!				
5, Was client not	ified of all discrepanci	es with this order?	Yes 🗌	No 🗌	NA 🗹	
Person N	Votified:	Date			i tid minimum	
By Whor		Via:	eMail P	hone 🗌 Fax [	In Person	
Regardir	West Commence of the Commence					
	structions:	1 - Committee of the state of t				
<ol><li>Additional rem</li></ol>	narks:					
7. <u>Cooler Inforn</u>	A market season as a contract of the contract		yak <u>an mananga kab</u> a kalaba ¶ 1990.	ngan kabang dipuntan 4		
Cooler No	Temp °C Condition  3.3 Good	on Seal Intact Seal No	Seal Date	Signed By		
2	3.3 Good 2.1 Good					
3	-0.4 Good		······································			

Received by OCD: 12/9/2020 4:24:21 PM

Ghain-of-Custody Record	Turn-Around Time:	
Olient: Talos LPE	Standard Rissh	
		T AZALYNIN JABORATORY
Mailing Address:	Bostoc 18 Los C.	www.hallenvironmental.com
8		Tel 505-345-3975 Eav 505 245 2407
Phone #:	700794 343 01	A AMERICAN
email or Fax#:	jer.	
QA/QC Package:		), SC (3, 3, 3
☐ Standard ☐ Level 4 (Full Validation)	B Sinclair	bO⁴ SIW SCE
☐ Az Compliance	pler: B,	7 DR2   1)   1)   1)   1)   1)   1)   1)   1
□ NELAC □ Other	On ice: A Yes D No	(A)
	# of Coolers: 3	(GR to of 5 to of 10 to of 10
	ding CF): Spe classiffication	stic stic ords v 83 Me Me (AC
	Renard	999 •99 •90 •90 •90 •90 •90 •90 •90 •90
Date Time Matrix Sample Name	Type and # Type	1081 201, F 201, F 201
8-4-2010:30 50;1 8-11 4	3	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10:35   B-11 6		
8-11 8	('8)	
13:45 8-12 6	79	
14:00 18-12 81	1021	
1-0 41-8   53:22	, 3 %	
12:55 8-14 2	409	
1 12:55   B-14 3'R	<b>火</b> 00/	
Date: Time: Relinquished hy:	ľ	
4	<u>ų</u>	Kemarks: 7.3-0-3.3
30.00	815/20	1.2-0-1.2
		7.01-0-10.01
11 11 11 11	1 121 COUNTER 8/6/20 8:00	
if necessary, samples submitted to Hall Environmental may be subconfracted tolerner	oconfracted tolether accredited laboratories. This serves as notice of this	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical renner



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

OrderNo.: 2008781

August 25, 2020

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

RE: Bootes 15 Fed Com 1H

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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Released to Imaging: 3/1/2021 3:22:44 PM

**Analytical Report** 

Lab Order 2008781

Date Reported: 8/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Bootes 15 Fed Com 1H

Lab ID: 2008781-001

Client Sample ID: B-11 10'

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

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

Analyses	Result	RL	Qua	l 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	Н	mg/Kg	1	8/20/2020 10:51:04 AM	54566
Motor Oil Range Organics (MRO)	350	47	Н	mg/Kg	1	8/20/2020 10:51:04 AM	54566
Surr: DNOP	110	30.4-154	Н	%Rec	1	8/20/2020 10:51:04 AM	54566

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

**Analytical Report** 

Lab Order 2008781

Date Reported: 8/25/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab ID:

Project:

2008781-002

Bootes 15 Fed Com 1H

Matrix: SOIL

Client Sample ID: B-11 15'

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

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 RANGI	E ORGANICS					Analyst:	BRM
Diesel Range Organics (DRO)	61	10	Н	mg/Kg	1	8/20/2020 11:39:07 AM	54566
Motor Oil Range Organics (MRO)	70	50	Н	mg/Kg	1	8/20/2020 11:39:07 AM	54566
Surr: DNOP	109	30.4-154	Н	%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.

Sample Diluted Due to Matrix

D H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit PQL

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 2 of 5

**Analytical Report** Lab Order 2008781

Date Reported: 8/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H Project:

Lab ID: 2008781-003 Client Sample ID: B-11 20'

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

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

Analyses	Result	RL	Qua	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 RANG	E ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	120	9.2	Н	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	Н	%Rec	1	8/20/2020 12:03:07 PM	54566

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 3 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: LCS-54566	Samp <sup>-</sup>	Гуре: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batc	h ID: 54	566	F	RunNo: 7	1215					
Prep Date: 8/20/2020	Analysis [	Date: <b>8/</b>	20/2020	\$	SeqNo: 2	484368	Units: mg/k	<b>(</b> g			
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	Samol	vpe: ME	 BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics		
Campio in: IIID-04000	Cump.	. <b>,</b> ,					••		0 0,94,00		
Client ID: PBS	•	h ID: <b>54</b> !			tunNo: 7						
•	•	h ID: <b>54</b> 0	566	F		1215	Units: mg/k	_	, <b>0</b> , 9,		
Client ID: PBS	Batcl	h ID: <b>54</b> 0	566 20/2020	F	tunNo: 7	1215		_	RPDLimit	Qual	
Client ID: PBS Prep Date: 8/20/2020	Batcl Analysis D	h ID: <b>54</b> t	566 20/2020	F S	tunNo: <b>7</b> 4 SeqNo: <b>2</b> 4	1215 184370	Units: mg/k	(g	·	Qual	
Client ID: PBS Prep Date: 8/20/2020 Analyte	Batcl Analysis D Result	h ID: <b>54!</b> Date: <b>8/</b> PQL	566 20/2020	F S	tunNo: <b>7</b> 4 SeqNo: <b>2</b> 4	1215 184370	Units: mg/k	(g	·	Qual	

Sample ID: 2008781-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: B-11 10'	Batch	ID: <b>54</b> 9	566	F	RunNo: 7	1215					
Prep Date: 8/20/2020	Analysis D	ate: 8/	20/2020	8	SeqNo: 2	485345	Units: mg/F				
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			Н	

Sample ID: 2008781-001AMS	SD Samp	Type: Mis	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: B-11 10'	Batc	h ID: <b>54</b>	566	F	RunNo: <b>7</b>	1215				
Prep Date: 8/20/2020	Analysis (	Date: 8/	20/2020	5	SeaNo: 2	485346	Units: mg/K	(g		
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	Н

### 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
  - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- 3 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 Con	1 H										
Sample ID: mb-54435	Samp	Type: Mil	BLK	Tes	tCode: Ei	PA Method	8015D Mod:	Gasoline	Range			
Client ID: PBS	Batc	h ID: 54	435	F	RunNo: <b>7</b>	1117						
Prep Date: 8/15/2020	Analysis [	Date: 8/	16/2020	8	SeqNo: 2	479008	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 520	5.0	500.0		105	70	130	040000000000000000000000000000000000000		water the same and		
Sample ID: Ics-54435	SampT	ype: LC	s	Tes	tCode: El	A Method	8015D Mod:	Gasoline	Range			
Client ID: LCSS	Batcl	h ID: <b>54</b>	435	F	RunNo: 7	1117						
Prep Date: 8/15/2020	Analysis D	Date: 8/	16/2020	S	SeqNo: 24	179009	Units: mg/K	g				
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.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 5 of 5



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

Released to Imaging: 3/1/2021 3:22:44 PM

1000 PM2		weosite: citet	ns.hallenvironmenta	u.com		Managara Camana Sagara (Majasina (Masasina od
Client Name:	Talon Artesia	Work Order Nur	nber: 2008781		RoptNo: 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:	10	8/14/20				
Chain of Cus	stody					
1. Is Chain of C	sustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an attern	npt made to cool the samp	oles?	Yes 🗹	No 🗌	NA 🗀	
4. Were all samp	ples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated t	est(s)?	Yes 🗹	No 🗌		-
7. Are samples (	except VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗌		
8. Was preserval	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
O. Were any san	nple containers received b	roken?	Yes 🛄	No 🗹	# of preserved bottles checked	
, .	ork match bottle labels? ancies on chain of custody	)	Yes 🗹	No 🗆	for pH:	unless noted
2. Are matrices c	correctly identified on Chai	n of Custody?	Yes 🗹	No 🔲	Adjusted?	· · · · · ·
	i analyses were requested	?	Yes 🗸	No 🔲 🗎	And	SINIT
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 📙	Checked by:	0000
	ing (if applicable)					
5. Was client not	tifled of all discrepancies v	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person I	Notified:	Date	Politic medical medical property for the party of the par			
By Who	· · · · · · · · · · · · · · · · · · ·	Via:	☐ eMail ☐ P	hone 🔲 Fax	In Person	
Regardi	P	13. William young a vice Way.	and the second s			
Client In	structions:					
l6. Additional ren	narks:					
7. Cooler Inform	<u>mation</u>					
Cooler No	Temp ºC Condition	Seal Intact Seal No	Seal Date	Signed By		
1	1.3 Good	Not Present				
Page 1 of	orden ombove i randradie. T	Daniel Company			AND THE RESERVE OF THE STATE OF	FR. S
. 454 1 01	-					

			www.hallenvironmental.com	- Albuqu	Analysis Paginast	b()	3's SI SI SI	bO <sup>‡</sup> belw bcE	7 DRS (1)	8/8 504 504 7 , //	HO)  Gebi  To I  Selection  To I  Selection  To I  To	odati ethce y 83 i Me i Me r, N	\ X = 08(f M) 8 M) 8 M ≥ 6 M) 8 M ≥ 6 M) 8 M) 0	BTE 808 EDL PAH RCI, I	>					,				Remarks:	00		
Turn-Around Time:	Standard 🗆 Rush	1	Batel 18 Fall	Project #:	10 245 465007	ger:	)	13 Singlair	Sampler: B Sinclair	On Ice: X Yes	# of Coolers 等	Cooler Temp(including CF); Sec Rungle	Container Preservative HEAL No.	#	1,00	200	003		10079				/	Received by: Via: Date Time	W 8/13/20	Received by: Via: **Date   Time	
shain-of-Custody Record	Client: Clou LPE		Mailing Address: ON F. L		Phone #:	email or Fax#:	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	□ Az Compliance	∴ NELAC □ Other	- MANAGEMENT - CONTRACTOR - CON		٠	Date Time Matrix Sample Name	8-4-2010:40 Sqil B-11 10	10:50 8-11 15	11:00   8-11 20					The state of the s		Time:	2060	e Y	(L) (Ox) (Dx) (A.:

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



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

August 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Released to Imaging: 3/1/2021 3:22:44 PM

**Analytical Report** 

Lab Order 2008C85

Date Reported: 8/28/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Bootes 15 Fed Com 1H

Lab ID: 2008C85-001

Project:

Client Sample ID: B-11 25'

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

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

Analyses	Result	RI. (	Dual Units	DF	Date Analyzed	Batch
PAHAIY 3003	A CONTRACTOR OF THE PARTY OF TH		<u> </u>	NG PARKETAN		
<b>EPA METHOD 8015D MOD: GASOLINE</b>	RANGE				Analys	t: 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 RANG	E ORGANICS				Analys	t: 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

Matrix: SOIL

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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				Analys	t: 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 RANG	E ORGANICS				Analys	t: 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- 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 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-54659	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: <b>546</b>	559	F	RunNo: <b>7</b> 1	1390				
Prep Date: 8/25/2020	Analysis D	ate: 8/2	26/2020	8						
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	SampT	уре: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	n ID: <b>54</b> 6	382	F	RunNo: 7	1390				
Prep Date: 8/25/2020	Analysis E	Date: 8/	26/2020	5	SeqNo: 2	492007	Units: mg/K	g		
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: PB\$	Batch ID: 54659	RunNo: 71390
Prep Date: 8/25/2020	Analysis Date: 8/26/2020	SeqNo: <b>2492008</b> 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	Samp	Гуре: М.Е	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: <b>546</b>	682	F	RunNo: <b>7</b> ′	1390				
Prep Date: 8/25/2020	Analysis [	Date: 8/2	26/2020	;	SeqNo: 24	492011	Units: mg/K	g		
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.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit н
- Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2008C85 28-Aug-20

Client:

Talon Artesia

QC SUMMARY REPORT

Project:

Bootes 15 Fed Com 1H

Sample ID: Ics-54677	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline F	Range	
Client ID: LCSS	Batc	h ID: <b>54</b> 6	<b>677</b>	F	RunNo: <b>7</b>	1405				
Prep Date: 8/25/2020	Analysis [	Date: <b>8</b> /:	26/2020	5	SeqNo: 24	192981	Units: mg/K	(g		
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	Samp1	Type: MiB	BLK	Tes	tCode: EF	A Method	8015D Mod: (	Gasoline R	ange	
Client ID: PBS	Batcl	h ID: <b>54</b> 6	677	F	RunNo: <b>7</b> 1	1405				
Prep Date: 8/25/2020	Analysis E	)ate: 8/2	26/2020	S	SeqNo: 24	92982	Units: mg/K	g		
Analyte	<b>5</b>	DO!	CDI/ value	SPK Ref Val	W DEO	1 and facile	Llichlimit	%RPD	RPDLimit	Qual
Λικαίγι <del>ο</del>	Result	PQL	SPK value	SPK Rei Vai	%REC	LowLimit	HighLimit	MED	KEDLBIR	Quai
	Result ND	5.0	SPK value	SPK Rei Vai	%REC	LOWLITIN	nigncini	/0INFD	KEDLBIIR	Quai
			500.0	SPK Rei Vai	103	70	130	70NFD	KEDLBIIK	Quai
Gasoline Range Organics (GRO)	ND 510		500.0		103	70				Qua

Prep Date: 8/25/2020 /	Analysis D	ate: 8/2	26/2020	5	SeqNo: 24	192986	Units: mg/K	g		
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	Samp	Гуре: М.S	D	Tes	tCode: El	A Method	8015D Mod: (	Gasoline F	Range	
Client ID: B-11 25'	Batcl	h ID: <b>54</b> 6	<b>677</b>	F	RunNo: <b>7</b>	1405				
Prep Date: 8/25/2020	Analysis [	Date: 8/2	26/2020	8	Geq <b>No: 2</b> 4	192987	Units: mg/K	(g		
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:

Received by OCD: 12/9/2020 4:24:21 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit





Hall Environmental Analysis Laboratory 4901 Hawkins NE  $Albuquerque,\,NM\,871\,09$ 

TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Released to Imaging: 3/1/2021 3:22:44 PM

LABURATURY	Website: clien	ts.hallenvironmenta	il.com		
Client Name: Taton Artesia	Work Order Nun	nber: 2008C85	(Carana Maria (Maria (Mari	RcptNo	: 1
Received By: Cheyenne Cason	8/25/2020 8:00:00	АМ			
Completed By: Juan Rojas	8/25/2020 8:05:18	АМ	Grandy.	-	
Reviewed By: 3R 8 /25/2	0				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In		_			
<ol><li>Was an attempt made to cool the sar</li></ol>	nples?	Yes 🗹	No 🗌	na 🗌	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
5. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) p	properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspac	e <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
<ul><li>0. Were any sample containers received</li></ul>	broken?	Yes	No 🗹 🗆	# of preserved	
Does paperwork match bottle labels?  (Note discrepancies on chain of custos	iv)	Yes 🔽	_	bottles checked for pH:	>12 unless noted)
2. Are matrices correctly identified on Ch		Yes 🔽	No 🗌	Adjusted?	= # 6 A * F * V
3. Is it clear what analyses were requeste	ed?	Yes 🗹	No 🗆		
<ol><li>Were all holding times able to be met? (If no, notify customer for authorization</li></ol>		Yes 🗹	No 🗆	Checked by:	NC 8/25/21
pecial Handling (if applicable)					
5. Was client notified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:  By Whom:  Regarding:  Client Instructions:	Date Via:	eMail P	none Fax	] In Person	
6. Additional remarks:					
7. Cooler Information  Cooler No. Temp Cooler Goodlilon  1 4.9 Good	Seal intact Seal No.	Seal Date	Signed By		

Chain-of-Custody Record	Tum-Around Time: イーイッソ	
Client: Talon LPE	☑ Standard □ Rush	
	ject Name:	
Mailing Address: On file	Bostos 15 Fod Car H	4901 Hawkins NE - Albranogram Nn 92400
Phone #:	700794.343.01	Anal
ernail or Fax#:	Project Manager:	†C
QA/QC Package:		R's SN SN SN
☐ Standard ☐ Level 4 (Full Validation)	815	b0'/ 10 l
	ت. 20	10s. (1. (1. (1.
П NELAC П Other	On Ice: 🗖 Yes 🗆 No	8/8 504 0r 1
□ EDD (Type)	# of Coolers:	(GF)
	Cooler Temp(Including.cs); リタナクバニ 4.9	odat ethoethoethoethoethoethoethoethoethoetho
		9808 M) : B d el B 4; B 4; W) (0
Date Time Matrix Sample Name	Type and # Type   Grank   Type	ВТЕ ВОВ / ВОРН БРАН ГОРН
8-19-20 13:07 50:1 8-11 25	200	
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	Cum 0/27/20 65/80	

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

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

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

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.