November 21, 2024

Cooter 16 State Com #5H – Raybaw Operating, LLC



Remediation Plan Report
Written by Sapec-Eco, LLC for Raybaw
Operating, LLC



ATTN: NMOCD District 2

811 S First St Artesia, NM 88210

RE: Remediation Plan Report

Cooter 16 State Com #5H

API No. 30-015-37875 Raybaw Operating, LLC [330220]

Surface Location: 0 - 16 - 25S - 29E 330 FSL 2310 FEL

Lat/Long: 32.1236382, -103.9883423 NAD83

NMOCD Incident ID - nAB1614734572

Raybaw Operating, LLC (Raybaw) has contracted Sapec-Eco, LLC (Sapec) to prepare this remediation plan report for a produced water release that occurred at the Cooter 16 State Com #5H (Cooter). The New Mexico Oil Conservation Division (NMOCD) has assigned this release the incident ID nAB1614734572. The initial C-141 form was submitted on May 23, 2016 and approved by the NMOCD on June 26, 2016 (Appendix C).

Site Characterization

The Cooter is located in Eddy County, NM approximately eight and a half (8.5) miles southeast of Malaga, NM. This release site is in Unit O, Section 16, Township 25S, Range 29E, at GPS coordinates 32.1236382 latitude and -103.9883423 longitude. It can be accessed by a lease road that bears entry from the south. A Location Map can be referenced in Figure 4.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is in the Rustler Formation. Siltstone, gypsum, sandstone, and dolomite. A Geologic Unit Map is available for reference in Appendix B.

The soil in this area, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey, is made up of Potter-Simona complex, having 5 to 25 percent slopes (Appendix B). The drainage class for this type of soil is well drained. There is a medium potential for karst geology to be present around the Cooter with the nearest high karst zone being 2.5 miles away (Figure 2).

This site is not in a known Lesser Prairie Chicken or Sand Dune Lizard habitat. The closest LPC Timing Restriction Area zone, according to the LPC Timing Area 2021 Southern Map courtesy of the Bureau of Land Management, is located greater than 15 miles to the northeast of the Cooter. LPC-Dune Lizard Maps can be found in Figure 5.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (bgs). This data was recorded from C-02371, in 1995, which is located approximately 0.88 miles away from the Cooter. According to the United States Geological Survey, well water data from USGS 320719103584601 25S.29E.16.44444 records depth to the nearest groundwater at 165 feet bgs, with the last gauge being conducted in 1978. This well is approximately 0.5 miles away from the Cooter. Referenced Water Surveys and Water-Related Maps can be found in Appendix A.

The nearest surface water body is the Pecos River located approximately 1.75 miles to the west of this site. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Riverine approximately 500 feet to the south of this area. According to Fema's National Flood Hazard Layer search, the Cooter is situated in Zone X – Area of Minimal Flood Hazard.

Previously, a remediation took place at this site and a remediation closure report was submitted on December 21, 2020. This same report was submitted for each incident ID listed here. For nAB1517443063, the closure report can be found in OCD Online: Permitting – Application ID 12820. For nAB1614734572, the closure report can be found in OCD Online: Permitting – Application ID 12823. For nAB1701352947, the closure report can be found in OCD Online: Permitting – Application ID 12826. Included in this report for reference in Appendix E are a Talon Sampling Summary from 2020 and SESI Sampling Summary from 2015. Photographic Documentation can be found in Appendix D.

On September 14, 2022, the NMOCD approved the report for nAB1701352947.

On November 14, 2024, the NMOCD denied the closure report submitted for nAB1614734572 citing: *bhall (11/14/2024)*, Remediation closure denied.



bhall (11/14/2024), OCD is unable to determine what sample results on Table 2, Confirmation Soil Sample Analysis below to which sample locations on the included maps as numerous samples illustrated on the maps have the same names.

bhall (11/14/2024), Photos included in the incident file of this release indicate that the release associated with nAB614734572 was in the containment of the tank battery. OCD is requiring a liner inspecting be included in the next submittal.

bhall (11/14/2024), Pursuant to 19.15.29.16 NMAC, "A. Responsible parties with current ongoing corrective actions/remediation with approved plans and timelines as of August 14, 2018 do not have to submit revised plans. B. Responsible parties with ongoing corrective actions/remediation without approved timelines or plans as of August 14, 2018 must submit a characterization plan or corrective action/remediation plan with proposed timeframes within 90 days of August 14, 2018.". There is not an approved remediation plan for this release and remediation must be performed in accordance with 19.15.29 NMAC. OCD is requiring an assessment and remediation of this release in accordance with 19.15.29 NMAC.

bhall (11/14/2024), Submit a complete and accurate report through the OCD Permitting website by 2/14/2025.

Remediation Plan in response to Denied Report

Raybaw proposes the following remediation plan:

- Submit two 48-Hour notifications to the NMOCD for a liner inspection and sampling event of the affected areas.
- Conduct a liner inspection of the poly-lined, metal-walled secondary containment inclusive of photos and a completed liner inspection form. If holes, rips, and/or tears are found within the affected area of this release, they will be noted and preparations to collect samples from underneath the liner will be made.
- Collect discrete samples from the affected area on the pad just outside the west wall of the secondary containment. This area was originally reported to be 10' x 20' in the initial C-141 form. After more research of initial documents and photos, and recalculating, this area is now estimated to be approximately 787 square feet. Samples should be collected from 4 different sample points within the release area and from 4 different sample points around the edges of the release area. Each sample point will yield 5 samples from depth intervals of surface, 1', 2', 3', and 4' bgs. A Proposed Sampling-Inspection Map in included in Figure 1.
- A total of 40 samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.
- Should any samples points show results of contamination that is over the regulatory limits of the less than 50-foot depth to groundwater section of Table 1, those points will be remediated via excavation. Area and volume measurements will be calculated at that time.
- If all samples show results of contamination that is under the regulatory limits of the less than 50-foot depth to groundwater section of Table 1, a final closure report documenting all data will be completed and submitted to the Portal for review/approval.

Approval Request

Raybaw Operating, LLC. respectfully requests that this remediation plan for incident ID nAB1614734572, be approved. Raybaw has complied with all applicable requirements as per 19.15.29.12 NMAC.

Should you have any questions or need additional information, please feel free to contact: Raybaw Operating, LLC. – Nancy Winn at 281-793-5452 or nwinn@sbcglobal.net. Sapec-Eco, LLC. – Tom Bynum at 580-748-1613 or tombynum@sapec-eco.com.

Attachments

Figures:

- 1- Proposed Sampling-Inspection Map
- 2- Karst Map
- 3- Topographic Map
- 4- Location Map
- 5- LPC-Dune Lizard Maps

Sapec-Eco, LLC
Received by QCD: 11/22/2024 9:17:51 AM

Temple, OK 73568

Page 4 of 118

Appendices:

Appendix A – Water Surveys & Water-Related Maps

Appendix B – Soil Survey & Geological Data

Appendix C – Initial C-141 Form & 48-Hour Notifications

Appendix D – Photographic Documentation

Appendix E – Talon Sample Summary & SESI Sample Summary



Figures:

1 – Proposed Sampling-Inspection Map

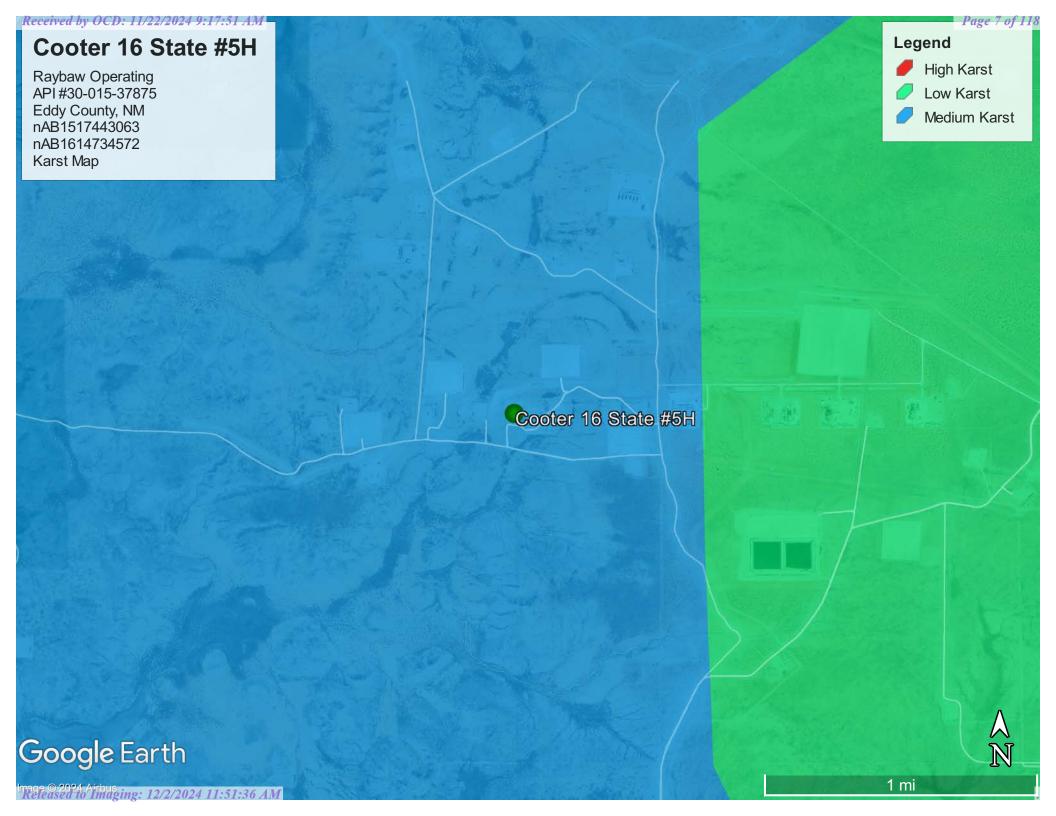
2 - Karst Map

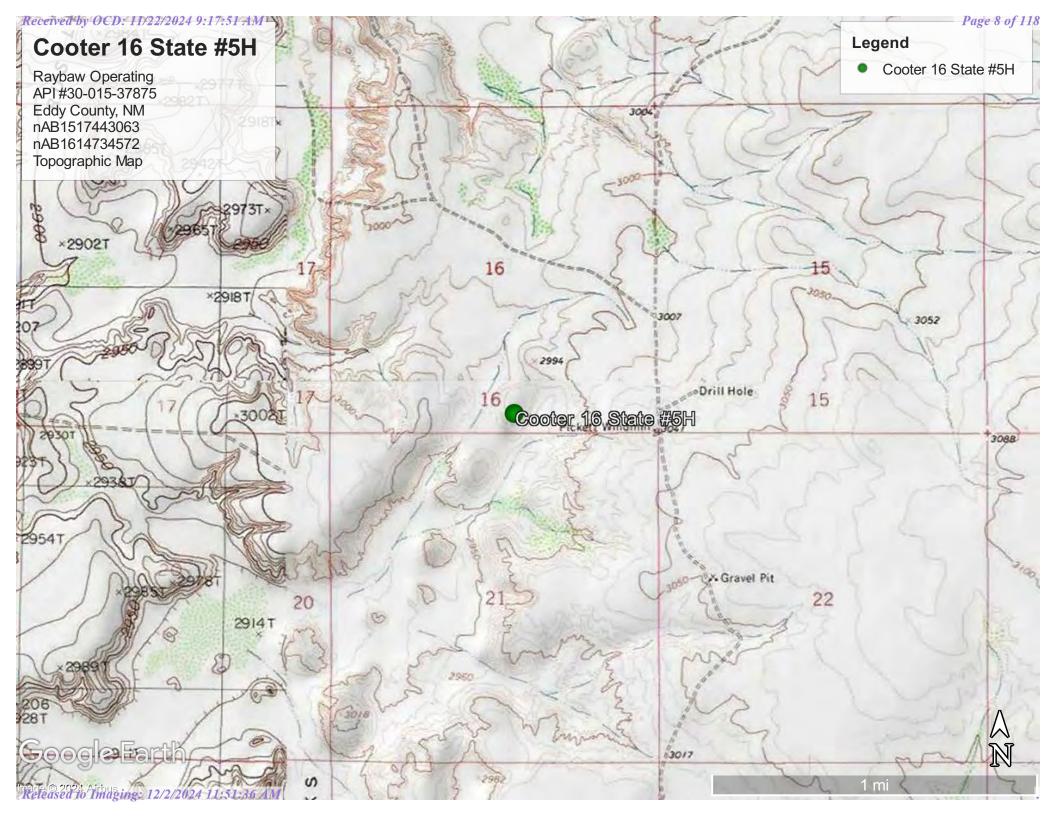
3 - Topographic Map

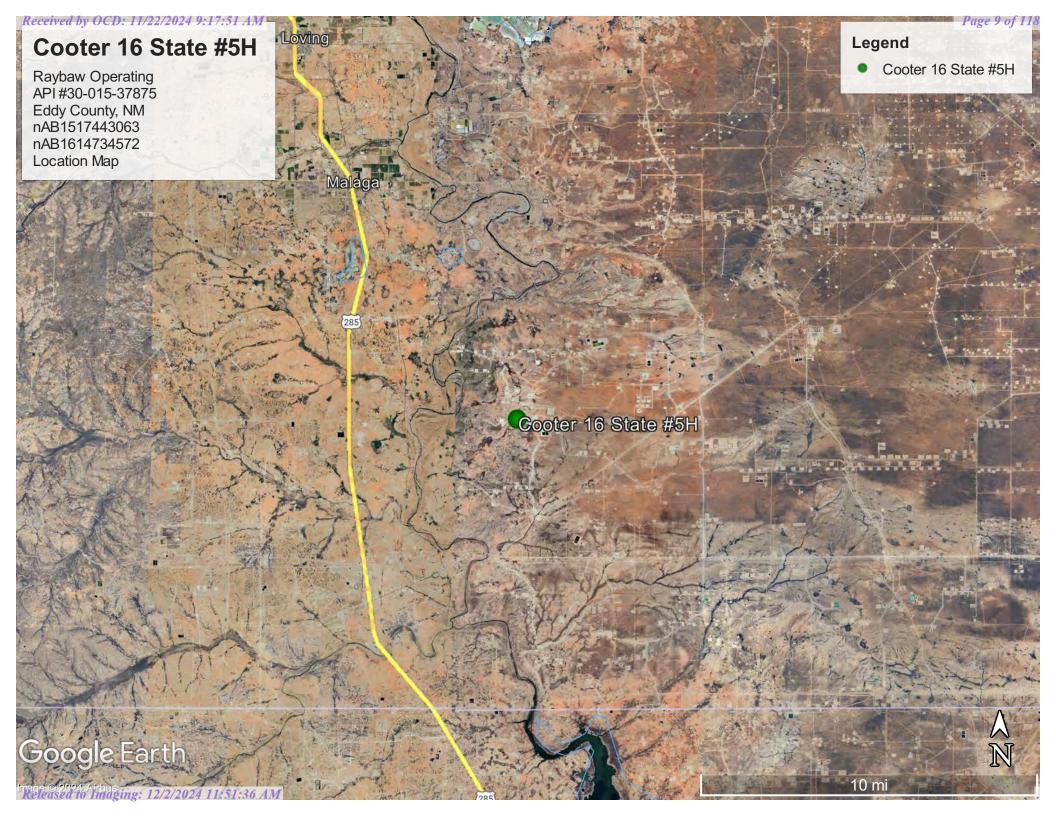
4 – Location Map

5 – LPC-Dune Lizard Maps

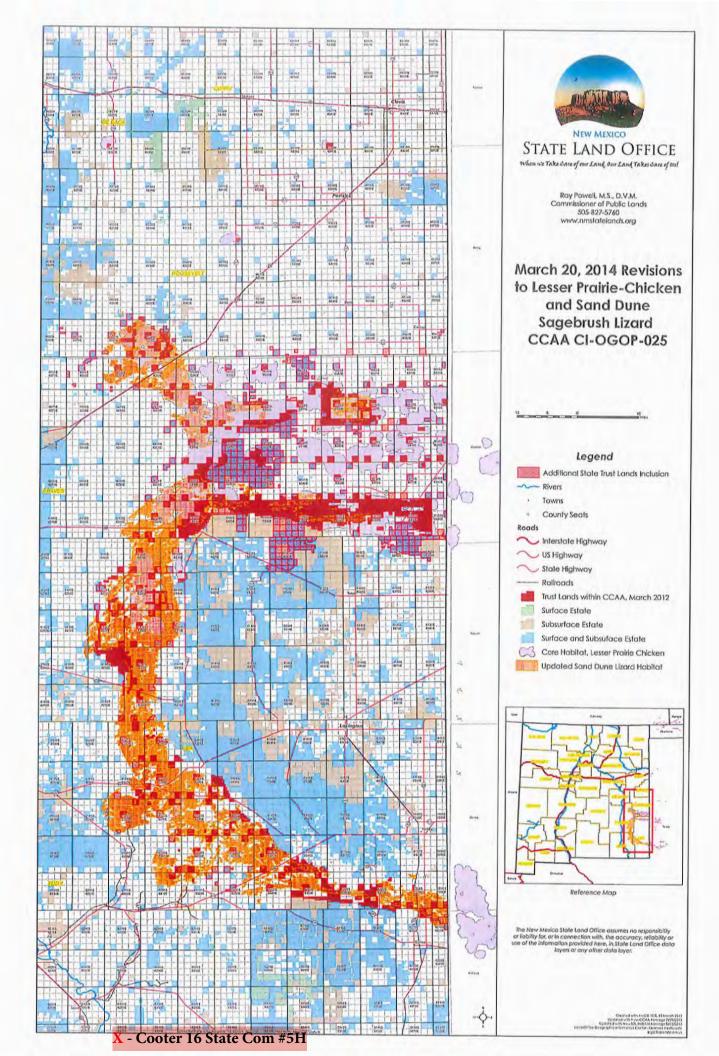


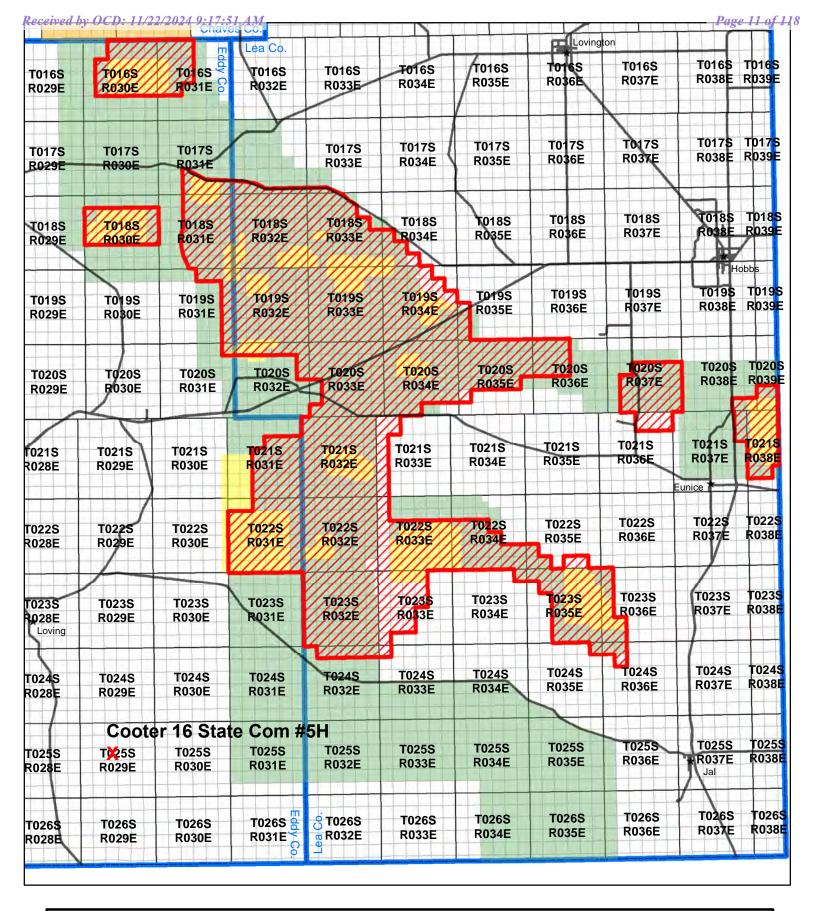






Received by OCD: 11/22/2024 9:17:51 AM









Appendix A

Water Surveys

Water-Related Maps



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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth	-	Water Column
<u>C 02371</u>		С	ED	NE	SW	15	25S	29E	596741.0	3555106.0 *	•	1430	200	60	140
<u>C 02680</u>		CUB	ED	NE	SW	15	25S	29E	596741.0	3555106.0 *	•	1430	200		
<u>C 04503 POD1</u>		CUB	ED SE	SW	SW	09	25S	29E	594883.5	3556142.6		1652			

Average Depth to Water: 60 feet

Minimum Depth: 60 feet

Maximum Depth: 60 feet

Record Count: 3

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 595412.24 **Northing:** 3554577.12

Radius: 02000

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.

^{*} UTM location was derived from PLSS - see Help

Point of Diversion Summary

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

Depth Well:

NAD83 UTM in meters

Depth Water:

60

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Мар
	C 02371		NE	SW	15	25S	29E	596741.0	3555106.0 *	•

* UTM location was derived from PLSS - see Help

Driller License:	1259	Driller Company:	CAMPBELL DRILLING	3	
Driller Name:	CAMPBELL, N	IICHAEL R.			
Drill Start Date:	1995-01-12	Drill Finish Date:	1995-01-24	Plug Date:	
Log File Date:	1995-02-01	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	20

200

Water Bearing Stratifications:

Тор	Bottom	Description
162	200	Sandstone/Gravel/Conglomerate

7.00

Casing Perforations:

Тор	Bottom
140	200

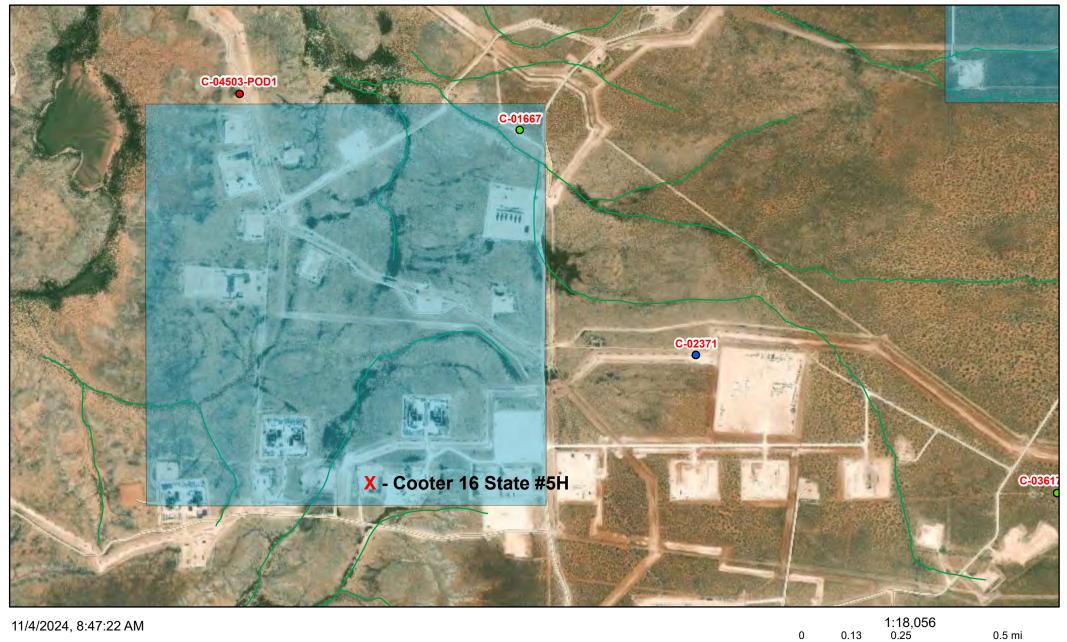
Casing Size:

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, or suitability for any particular purpose of the data.

11/21/24 9:44 AM MST Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

OSE POD Location Map



11/4/2024, 8:47:22 AM **GIS WATERS PODs**

Plugged

New Mexico State Trust Lands NHD Flowlines

Both Estates

Connector

Stream River

Active

Pending

OSE District Boundary

0.5 mi

0.8 km

0.13

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

• 320719103584601

Minimum number of levels = 1

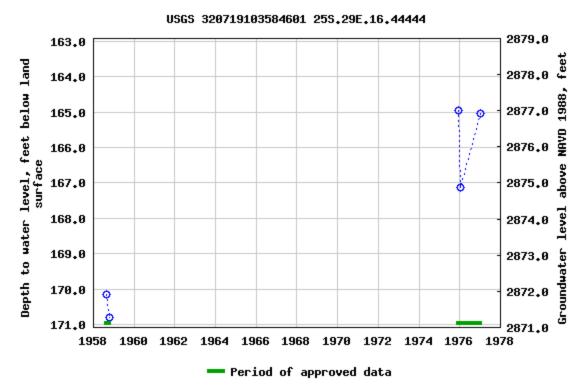
Save file of selected sites to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Available data for this site G	roundwater:	Field measurements	✓ GO	
Eddy County, New Mexico				
Hydrologic Unit Code 130600	011			
Latitude 32°07'19", Longitu	de 103°58	8'46" NAD27		
Land-surface elevation 3,042	2 feet abo	ve NAVD88		
The depth of the well is 200	feet below	v land surface.		
This well is completed in the	Other aq	uifers (N9999OTI	HER) natio	nal aquife
This well is completed in the	Rustler F	ormation (312RS	SLR) local a	aguifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-11-21 11:47:05 EST

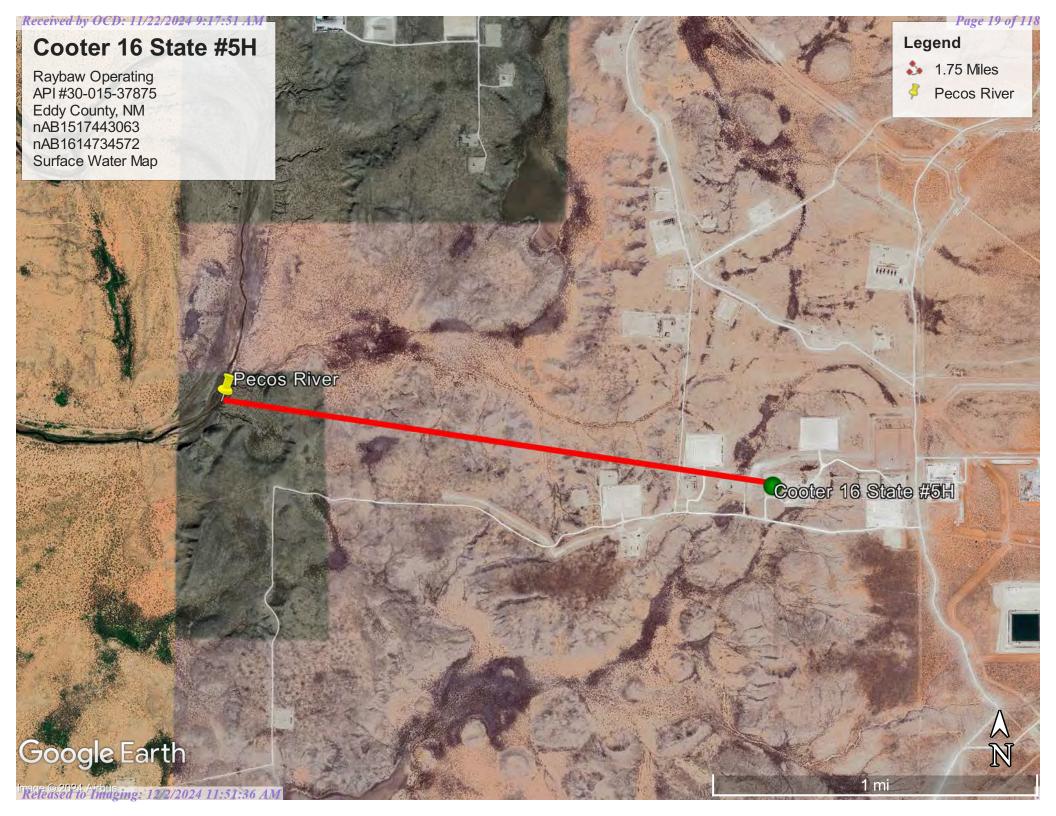
0.67 0.49 nadww02





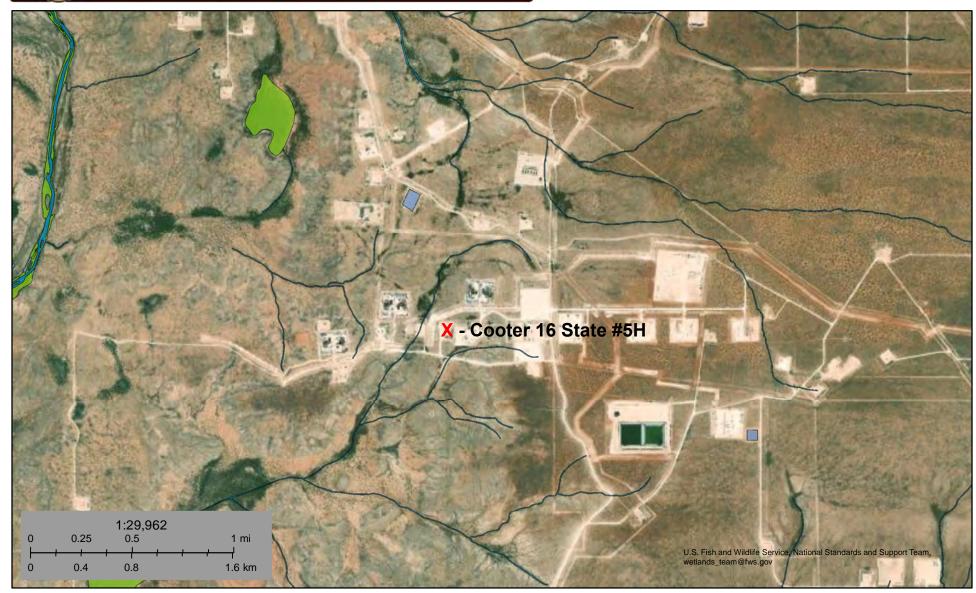
National Water Information System: Mapper







Wetlands Map



November 4, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

0.1

Riverine

Other

Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

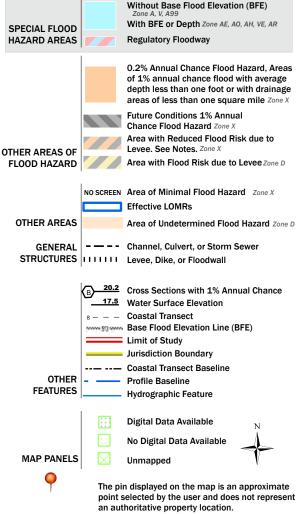
This map is for general reference only. The US Fish and Wildlife

Received by OCD: 11/22/2024 9:17:51 AM National Flood Hazard Layer FIRMette





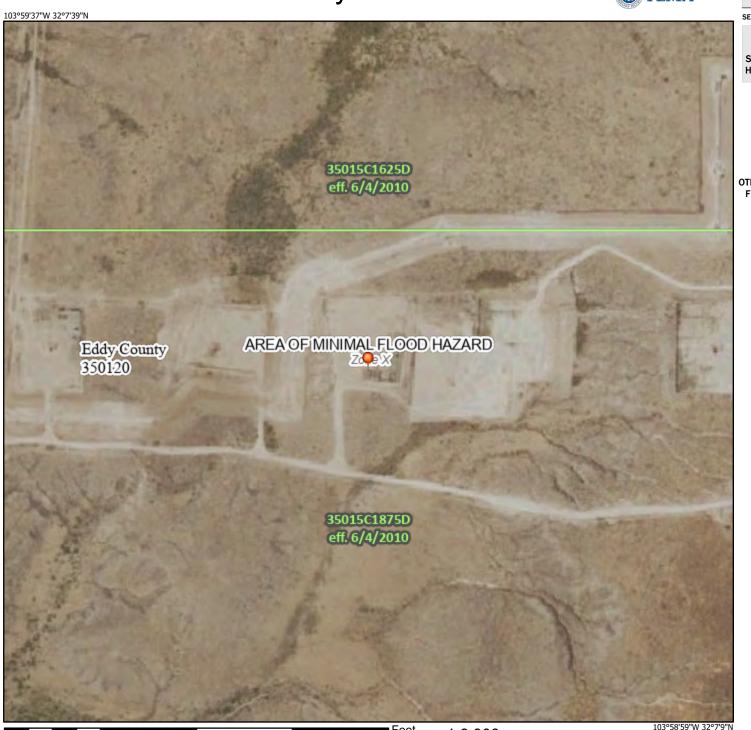
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/4/2024 at 2:53 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





Appendix B

Soil Survey

Soil Map

Geologic Unit Map

Eddy Area, New Mexico

PS—Potter-Simona complex, 5 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w57 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

Potter and similar soils: 80 percent Simona and similar soils: 15 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Potter

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope,

footslope, toeslope

Landform position (three-dimensional): Side slope, head slope,

nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Alluvium

Typical profile

H1 - 0 to 10 inches: gravelly loam H2 - 10 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 25 percent

Depth to restrictive feature: More than 80 inches

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

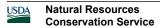
Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.2 inches)



Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

Description of Simona

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 11 inches: gravelly fine sandy loam H2 - 11 to 19 inches: gravelly fine sandy loam H3 - 19 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 10 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

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 content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 3 percent

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent



Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Clavelly ope



Landfill



Lava Flow

Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Stony Spot

Spoil Area



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

~

Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

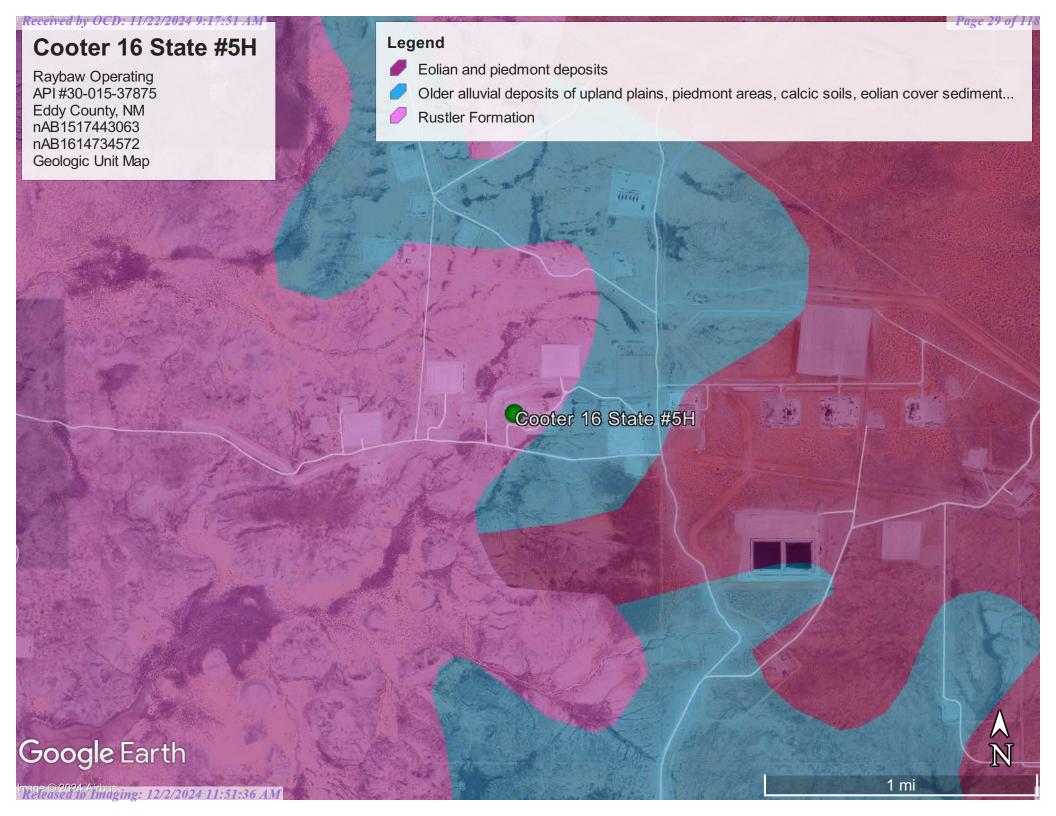
Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PS	Potter-Simona complex, 5 to 25 percent slopes	8.2	100.0%
Totals for Area of Interest		8.2	100.0%





Appendix C

Initial C-141 Form

48-Hour Notifications

NM OIL CONSERVATION

Page 31 of 118

ARTESIA DISTRICT

MAY 2.4 2016

Form C-141 Revised August 8, 2011

JRP-3712)

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in **RECEIVEO** ordance with 19.15.29 NMAC.

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

220 S. St. Fran	20 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505											
	Release Notification and Corrective Action											
NABI	41473	4572		4		OPERA:	ГOR			al Report		Final Report
			Product	ion Company	137	Contact Le	onard Aguilar,	Assista			an	
		Rivers Hwy					No. 575.513.193					
Facility Na	me Cooter	16 State 5H				Facility Ty	pe Oil					
Surface Ow	vner State	;		Mineral (Owner	State			API No	30-015-3	7875	
				LOCA	TION	OF REI	LEASE					
Unit Letter N	Section 16	Township 25S	Range 29S	Feet from the	North/	South Line FNL	Feet from the 2310		Vest Line FEL	County Eddy		
	Latitude: 32.1236382 Longitude: -103.9883423											
				NAT	URE	OF REL						
Type of Rele Produced Wa						Volume of 5BBLS	'Release		Volume I 2BBLS	Recovered		
Source of Re							Hour of Occurre	nce		Hour of D	scove	ry
Pinhole leak	on steel pip					5/19/2016	@ 7:00am			6@7:00am		*
Was Immedi	iate Notice		Yes [No Not Re	equired	OCD-Mike						
By Whom?	ilar Acciet	ant Production	Foreman			Date and Hour OCD-5/20/2016 @ 7:00am						
Was a Water			i i Oreman			If YES, Volume Impacting the Watercourse						
			Yes 🗵] No		N/A						
If a Waterco N/A	ourse was I	mpacted, Des	scribe Ful	ly.*								
5 BBLS of pa	roduced wat	olem and Ren ter was release pair clamp wa	ed. The re	lease originated o	on a steel	pipe on the	inlet water line. 1	The valv	e was shut	off to preve	nt furt	her release
5BBLS of pr remaining on Southwest sid	roduced wat location. 2 de of location	2 BBLS of pro on between the	ed from a oduced wa e entrance	pinhole leak in the ter was recovered and the storage to	via vacu inks. Ar	ium truck. T n environmer	he approximate satal company will	ize of th be cont	e area affer acted for re	cted was a 1 emediation.	Oft by	20ft on the
regulations all public health should their of or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report as acceptant adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo investigate and rotance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Rion that pose a thr	ctive act leport" d reat to gr	ions for rel loes not rel round wate	eases which ieve the ope r, surface wa	may erator of ater, h	endanger of liability uman health
Signature: 1	Dana D	eLaRosa	,				OIL CON	را	<i>!!</i> ,	,	<u>N</u>	
Printed Name: Dana DeLaRosa					Approved by Environmental Specialist:							
Title: Produc	tion: Field	Admin Suppo	ort			Approval Da	te: 5/24/1	4	Expiration	Date: N/	A	
E-mail Addre	ess: dana.d	elarosa@dvn	.com		F	Conditions o	on per O.C.D.	Rules	& Guide	l inas ached	ı 🗀	
Date: 5/23/2	016	Phor	ne: 575.74	6.5594]3	UBMIT R	EMEDIATION	PROP	OSAL N	q		
		ets If Necess				ATER TH		U H	<u> </u>		JR I	23713

* Attach Additional Sheets If Necessary

Received by OCD: 11/22/2024 9:17:51 AM Page 32 of 118

Cooter 16 State 5H 5BBL PW_5.19.2016



WGS_1984_Web_Mercator_Auxiliary_Sphere Prepared by: Dana DeLaRosa Map is current as of: 23-May-2016

Miles

0.02 1:889



Released to Imaging: 12/2/2024 11:51:36 AM

District I
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**

QUESTIONS

Action 399484

QUESTIONS

Operator:		OGRID:
RAYBAW	Operating, LLC	330220
2626 Cole	e Avenue	Action Number:
Dallas, TX	C 75204	399484
		Action Type:
		[NOTIFY] Notification Of Sampling (C-141N)
	·	

QUESTIONS

Prerequisites							
Incident ID (n#)	nAB1614734572						
Incident Name	NAB1614734572 COOTER 16 STATE 5H @ 30-015-37875						
Incident Type	Produced Water Release						
Incident Status	Initial C-141 Approved						
Incident Well	[30-015-37875] COOTER 16 STATE COM #005H						

ocation of Release Source	
Site Name	COOTER 16 STATE 5H
Date Release Discovered	05/19/2016
Surface Owner	State

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	8,150		
What is the estimated number of samples that will be gathered	9		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/24/2020		
Time sampling will commence	08:00 AM		

Warning: Notification can not be less than two business days prior to conducting final sampling.

ı			
	Please provide any information necessary for observers to contact samplers	Historic release sampled by Talon in 2020	
	Please provide any information necessary for navigation to sampling site	Historic releases - 3 spills overlapping	

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

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

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

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 399484

CONDITIONS

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	399484
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	Condition	Condition
Ву		Date
mlee	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/5/2024



Appendix D

Photographic Documentation





Point of Release

Containment Area



Pad Area







Overlap from nAB1517443063

Talon Excavation 2020





Talon Excavation 2020

Talon Backfill 2020



Appendix E

Talon Sampling Summary

SESI Sampling Summary

07-24-2020

Sample ID	Dept h (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	CI (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/k g	10 mg/kg				2,500 mg/kg	10,000 mg/kg	
Comp 1	0-1	07/22/2020	ND	ND	ND	ND	ND	-	730
Comp 2	0-1	07/22/2020	ND	ND	ND	10	ND	10	3100
Comp 3	0-1	07/22/2020	ND	ND	ND	ND	ND	-	ND
Comp 4	0-1	07/22/2020	ND	ND	ND	ND	ND	-	150

ND = Analyte Not Detected

07-24-2020

Sample ID	Dept h (ft.)	Date	BTEX (mg/k g)	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/k g	10 mg/kg				2,500 mg/kg	10,000 mg/kg
Comp 1	0-1	07/22/2020	ND	ND	ND	2600	2100	4700	120
Comp 2	0-1	07/22/2020	ND	ND	ND	ND	ND	-	61
Comp 3	0-1	07/22/2020	ND	ND	ND	ND	ND	-	160
Comp 4	0-1	07/22/2020	ND	ND	ND	ND	ND	-	ND

ND = Analyte Not Detected

08-04-2020 (Cooter 3H-5H)

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)
C	Closure Criteria		50 mg/kg	10				2,500	10,000
19	19.15.29.12 NMAC		JO HIG/ Kg	mg/kg				mg/kg	mg/kg
S1A	1'	08/04/2020	NT	NT	ND	ND	ND	-	510
S2A	1'	8/04/2020	NT	NT	ND	ND	ND	-	18000
S3A	1'	8/04/2020	NT	NT	ND	ND	ND	-	2600
S4A	1'	8/04/2020	NT	NT	ND	ND	340	-	720
N-BG	0-1'	8/04/2020	ND	ND	ND	ND	ND	-	1200
W-BG	0-1'	8/04/2020	ND	ND	ND	120	340	-	600

ND = Analyte Not Detected

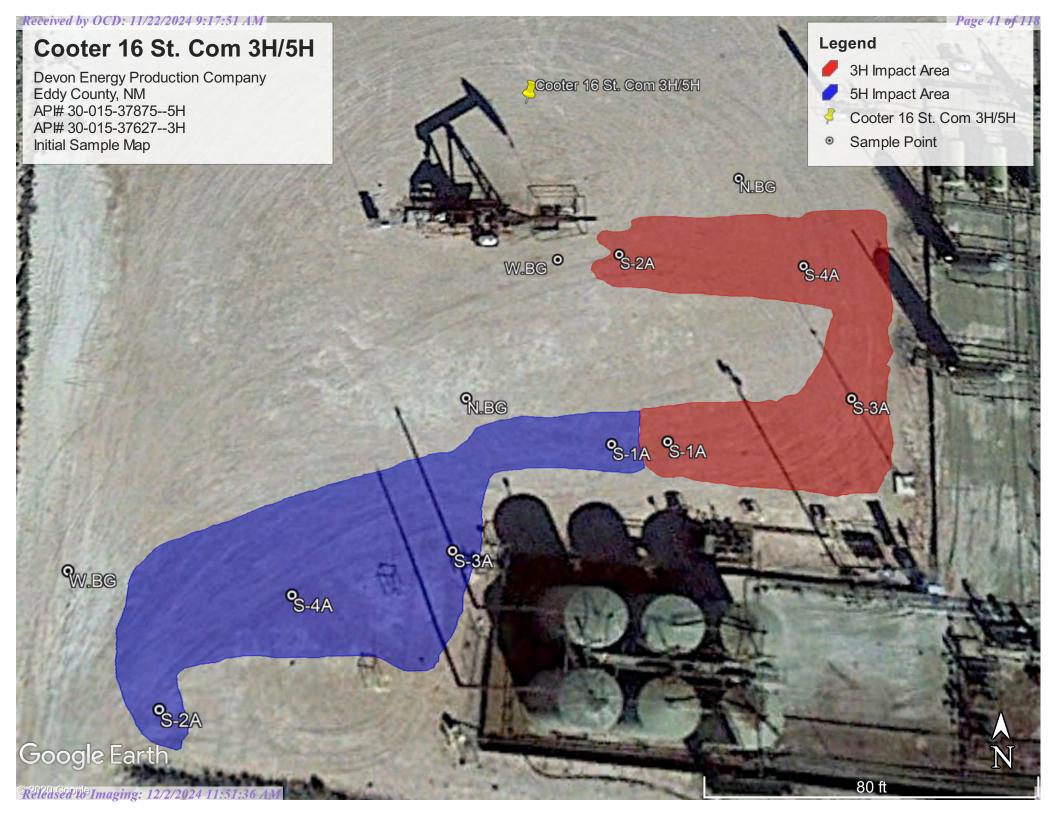
NT= Analyte Not Tested BG=Background Sample

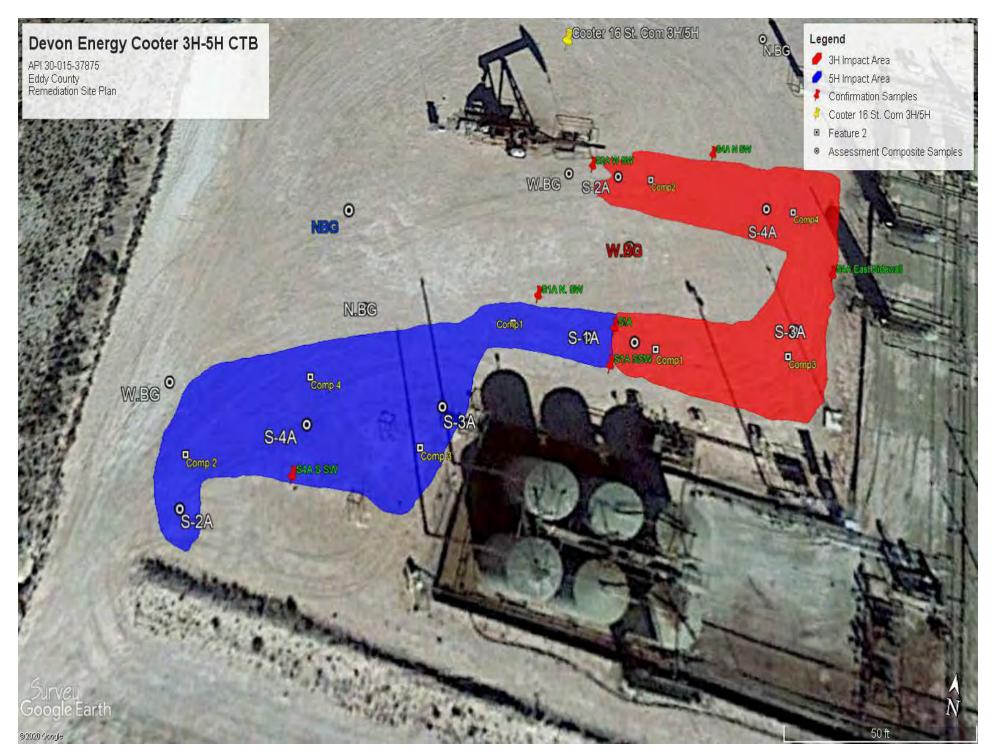
08-26-2020

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 Ci		50 mg/kg	10				2,500	10,000
19	19.15.29.12 NMAC			mg/kg				mg/kg	mg/kg
S1A S. SW	2′	8/24/2020	NT	NT	ND	ND	ND	-	NT
S1A	2'	8/24/2020	NT	NT	ND	ND	ND	ı	NT
S1A N. SW	2′	8/24/2020	NT	NT	ND	ND	ND	-	NT
S2A W. SW	2′	8/24/2020	NT	NT	NT	NT	NT	-	80
S4A N. SW	2′	8/24/2020	NT	NT	ND	ND	ND	-	160
S4A E. SW	2′	8/24/2020	NT	NT	ND	ND	ND	-	160
S4A S. SW	2′	8/24/2020	NT	NT	ND	ND	ND	-	80
WBG	0-1'	8/24/2020	NT	NT	ND	ND	ND	-	180
NBG	0-1'	8/24/2020	NT	NT	ND	ND	ND	-	170

ND = Analyte Not Detected SW = Sidewall Soil Sample NT= Analyte Not Tested BG=Background Sample

Released to Imaging: 12/2/2024 11:51:36 AM







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

July 30, 2020

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

RE: Devon Cooter 16ST5H OrderNo.: 2007C45

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/24/2020 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

Bules

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Devon Cooter 16ST5H

Lab ID: 2007C45-001

Matrix: SOIL

Collection Date: 7/22/2020 10:00:00 AM **Received Date:** 7/24/2020 9:50:00 AM

Client Sample ID: #5 Devon Cooter Comp 1

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	730	60	mg/Kg	20	7/28/2020 6:36:04 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/28/2020 2:18:06 PM	53977
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/28/2020 2:18:06 PM	53977
Surr: DNOP	127	30.4-154	%Rec	1	7/28/2020 2:18:06 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 10:24:45 PM	53942
Surr: BFB	92.8	66.6-105	%Rec	1	7/25/2020 10:24:45 PM	53942
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	7/25/2020 10:24:45 PM	53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 10:24:45 PM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 10:24:45 PM	53942
Xylenes, Total	ND	0.097	mg/Kg	1	7/25/2020 10:24:45 PM	53942
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/25/2020 10:24:45 PM	53942

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

- 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 8

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 2

Project: Devon Cooter 16ST5H

Collection Date: 7/22/2020 10:15:00 AM

Lab ID: 2007C45-002

Matrix: SOIL

Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	3100	150	mg/Kg	50	7/30/2020 1:01:47 AM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	10	9.9	mg/Kg	1	7/28/2020 2:42:24 PM	53977
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/28/2020 2:42:24 PM	53977
Surr: DNOP	104	30.4-154	%Rec	1	7/28/2020 2:42:24 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 10:48:11 PM	53942
Surr: BFB	88.2	66.6-105	%Rec	1	7/25/2020 10:48:11 PM	53942
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	7/25/2020 10:48:11 PM	53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 10:48:11 PM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 10:48:11 PM	53942
Xylenes, Total	ND	0.099	mg/Kg	1	7/25/2020 10:48:11 PM	53942
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	7/25/2020 10:48:11 PM	53942

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 2 of 8

2007C45-003

Lab ID:

Analytical Report Lab Order 2007C45

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Devon Cooter 16ST5H

Collection Date: 7/22/2020 10:30:00 AM **Received Date:** 7/24/2020 9:50:00 AM

Client Sample ID: #5 Devon Cooter Comp 3

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	7/28/2020 7:25:28 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/28/2020 3:06:37 PM	53977
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/28/2020 3:06:37 PM	53977
Surr: DNOP	89.7	30.4-154	%Rec	1	7/28/2020 3:06:37 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 11:11:38 PM	53942
Surr: BFB	91.6	66.6-105	%Rec	1	7/25/2020 11:11:38 PM	53942
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/25/2020 11:11:38 PM	53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 11:11:38 PM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 11:11:38 PM	53942
Xylenes, Total	ND	0.098	mg/Kg	1	7/25/2020 11:11:38 PM	53942
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/25/2020 11:11:38 PM	53942

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 3 of 8

Analytical Report

Lab Order **2007C45**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2020

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 4

Project: Devon Cooter 16ST5H

Collection Date: 7/22/2020 10:45:00 AM

Lab ID: 2007C45-004

Matrix: SOIL

Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	150	60	mg/Kg	20	7/28/2020 7:37:48 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	7/28/2020 3:30:58 PM	53977
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/28/2020 3:30:58 PM	53977
Surr: DNOP	66.0	30.4-154	%Rec	1	7/28/2020 3:30:58 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 11:35:08 PM	53942
Surr: BFB	91.3	66.6-105	%Rec	1	7/25/2020 11:35:08 PM	53942
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/25/2020 11:35:08 PM	53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 11:35:08 PM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 11:35:08 PM	53942
Xylenes, Total	ND	0.098	mg/Kg	1	7/25/2020 11:35:08 PM	53942
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/25/2020 11:35:08 PM	53942

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 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C45**

30-Jul-20

Client: Talon Artesia

Project: Devon Cooter 16ST5H

Sample ID: MB-54013 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54013 RunNo: 70680

Prep Date: 7/28/2020 Analysis Date: 7/28/2020 SeqNo: 2459573 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54013 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54013 RunNo: 70680

Prep Date: 7/28/2020 Analysis Date: 7/28/2020 SeqNo: 2459574 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

6.1

WO#: **2007C45**

30-Jul-20

Client: Talon Artesia

Surr: DNOP

Project: Devon Cooter 16ST5H

Sample ID: LCS-53977 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 53977 RunNo: 70650

Prep Date: 7/27/2020 Analysis Date: 7/28/2020 SeqNo: 2458651 Units: mg/Kg

5.000

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 57 50.00 114 70 130

122

30.4

154

Sample ID: MB-53977 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 53977 RunNo: 70650

Prep Date: 7/27/2020 Analysis Date: 7/28/2020 SeqNo: 2458652 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 14 10.00 136 30.4 154

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C45**

30-Jul-20

Client: Talon Artesia

Project: Devon Cooter 16ST5H

Sample ID: mb-53942 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 53942 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/25/2020 SeqNo: 2456612 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 910 1000 90.9 66.6 105

Sample ID: Ics-53942 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53942 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/25/2020 SeqNo: 2456613 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 87.1 72.5 106

Surr: BFB 1000 1000 100 66.6 105

Sample ID: mb-53947 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 53947 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/26/2020 SeqNo: 2456636 Units: %Rec

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

Surr: BFB 910 1000 90.5 66.6 105

Sample ID: Ics-53947 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53947 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/26/2020 SegNo: 2456637 Units: %Rec

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

Surr: BFB 1000 1000 103 66.6 105

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C45 30-Jul-20**

Client: Talon Artesia

Project: Devon Cooter 16ST5H

Sample ID: mb-53942 SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 53942			R	RunNo: 70616					
Prep Date: 7/24/2020	Analysis Date: 7/25/2020			S	SeqNo: 2456665			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-53942	ample ID: LCS-53942 SampType: LCS					TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Client ID: LCSS Batch ID: 53942					RunNo: 70616						
Prep Date: 7/24/2020	S	SeqNo: 2456666 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	91.5	80	120					
Toluene	0.93	0.050	1.000	0	92.7	80	120					
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120					
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120					

Sample ID: mb-53947	SampTy	/pe: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	R	RunNo: 7 0	0616							
Prep Date: 7/24/2020	Prep Date: 7/24/2020 Analysis Date: 7/26/2020		S	SeqNo: 2456689			:			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120		•	•

Sample ID: LCS-53947	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	ID: 53	947	F	RunNo: 7 0	0616				
Prep Date: 7/24/2020 Analysis Date: 7/26		/26/2020	/2020 SeqNo:			eqNo: 2456690 Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1 000		104	80	120			

Qualifiers:

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

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

Page 8 of 8



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: 2007C45		RcptNo:	1
Received By:	Scott Anderson	7/24/2020 9:50:00	AM			
Completed By:	Juan Rojas	7/24/2020 10:21:07	7 AM	Hansay		
Reviewed By:	JR 7/24/	70				
Chain of Cus	stody					
1, Is Chain of C	sustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In			v	NI- 🗆	NA 🗆	
5. was an atten	npt made to cool the sa	mples?	Yes 🗸	No 📙	NA L	
4. Were all sam	ples received at a tempo	erature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	nple volume for indicated	d test(s)?	Yes 🗹	No 🗌		
7. Are samples ((except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspa	ce <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sar	mple containers receive	d broken?	Yes □	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custo		Yes 🗹	No 🗆	bottles checked for pH:	>12 unless noted)
12. Are matrices of	correctly identified on CI	hain of Custody?	Yes 🗸	No 🗆	Adjusted?	
13, is it clear wha	t analyses were request	ted?	Yes 🗹	No 🗆		mc 7/20/20
	ng times able to be met ustomer for authorizatio		Yes 🗹	No 🗌	Checked by:	MC 1/200 90
Special Handl	ing (if applicable)					
15. Was client no	otified of all discrepancie	es with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	ANAMA IN ANTI-MINAMATINI NALANTINI	Via:	eMail P	Phone 🗌 Fax	☐ In Person	
Regard	ing: nstructions:	THE RESERVE OF THE PROPERTY OF			3	
16. Additional re	20-80-80-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annual Control of the	**************************************	WHITE SANGESTEE STATE ST	NFETAAA.	
17. <u>Cooler Infor</u> Cooler No		n Seal Infact Seal No	Seal Date	Signed By (*)		
<u> </u>	2.9 G000					

			stody Record	Turn-Around				I-1		LE	NV		20	NN	1E	NT	'AI	_		
Client:	Talon	LPE		Standard	d □ Rush	Holay						LY								
		Texas S		Project Nam	ie:				e de la composição de l	w	ww.ł	hallen	viron	ment	tal.co	om				
Vlailing	Address	: Arte	sia, NM 88210	TOPLAN C	COTER 16	575H		490)1 H:	awkin	s NE	- A	buqu	erqu	e, NI	M 87	109			
				Project #:	00TER_/6	DC-	1	Te	l. 50	5-345	-397	' 5	Fax	505-	-345-	4107	7			
Phone :	#: 575	-441-098	30	7007	194 3 <i>5</i> -	2,01					energia. Compete	10 4 10	lysis	Req	uest					
email o	r Fax#:	(575)	746-8905	Project Man	ager:		5	စ္က	,			SO.			ent)					
QA/QC∃ □ Stan	Package: idard		☐ Level 4 (Full Validation	Rebecca P	ons		TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		8Z/USIMS	PO ₄ .	:		Coliform (Present/Absent)		ļ			
			mpliance				I ME	0/0	/808		⊨l	Š,		(A	Prese					
□ NEL	(Type)	□ Other	,			A ELIGINO	MTBE/	<u>8</u>	ides	2d 5	[] :	Stars O		9	rm (
Date		Matrix	Sample Name	Cooler Tem Container Type and #	Sampler: Bill Riggs Drife: By Yes EnNo Fof Coolers: k Cooler Templinduding Cri.: 2,4, 0 = 2,9 Container Preservative Type ACO FC				8081 Pesticides/8082	EDB (Method	PAHS by 8310	RCKA 8 Metals CDF. Br. NO.	8260 (VOA)	8270 (Semi-VOA)	Total Colifo					
7-27	10 AM		DEUDW CLOSTER COMP	tan	T.CE		X	X				χ		•						
	10:15 AM		PRION COOTER COMP.		1	3	χ_{\perp}	K				Įχ								
	16,30AM		DEVON COOTEL COMPS	1 }			χ	X				X							\perp	
	10.45AM		DEVON GOORE COMP	/		-004	χ	X	-		_	X	-					-	_	_
	ļ									<u> </u>		_	-	_				\dashv	\dashv	
	ļ		·				ļ			_	- -		_		-			 -	_	
							-			-	+	_	+		-				\dashv	+
	<u> </u>						ļ				+	\dashv	-				-		_	
							+			\dashv		-	+	-	 				\dashv	-
											\dashv	+	_	<u> </u>					_	
							\vdash			\top	+		-	\vdash	一	Н		-	_	
Date: Time: Relinquished by:				Received by:	assummines 76500 BOS			Rpo	dkins	@tal @talor	onip ilpe.	com	n	llow	/ing	via	em	ail:		<u> </u>
Date: Time: Relinguished by: 27 10310 900 UMMMMVC				SPA .	ourier 7	. 26, 2091.50	is nos			r@tal	· ·			rfy not	ated or	n the a	malytic	al repo		



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

July 30, 2020

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

RE: Devon Cooter 16ST3H OrderNo.: 2007C46

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/24/2020 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

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Devon Cooter 16ST3H

Lab ID: 2007C46-001

Matrix: SOIL

Collection Date: 7/22/2020 11:00:00 AM Received Date: 7/24/2020 9:50:00 AM

Client Sample ID: #3 Devon Cooter Comp 1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	120	60		mg/Kg	20	7/28/2020 8:14:50 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	2600	98		mg/Kg	10	7/28/2020 3:55:07 PM	53977
Motor Oil Range Organics (MRO)	2100	490		mg/Kg	10	7/28/2020 3:55:07 PM	53977
Surr: DNOP	0	30.4-154	S	%Rec	10	7/28/2020 3:55:07 PM	53977
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2020 11:58:47 PM	53942
Surr: BFB	88.0	66.6-105		%Rec	1	7/25/2020 11:58:47 PM	53942
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2020 11:58:47 PM	53942
Toluene	ND	0.049		mg/Kg	1	7/25/2020 11:58:47 PM	53942
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2020 11:58:47 PM	53942
Xylenes, Total	0.13	0.099		mg/Kg	1	7/25/2020 11:58:47 PM	53942
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/25/2020 11:58:47 PM	53942

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 8

Client Sample ID: #3 Devon Cooter Comp 2 Collection Date: 7/22/2020 11:15:00 AM

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Devon Cooter 16ST3H

Lab ID: 2007C46-002 **Matrix:** SOIL **Received Date:** 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	61	61	mg/Kg	20	7/28/2020 8:27:10 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/29/2020 3:33:13 PM	53977
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/29/2020 3:33:13 PM	53977
Surr: DNOP	108	30.4-154	%Rec	1	7/29/2020 3:33:13 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/26/2020 12:22:13 AM	53942
Surr: BFB	88.0	66.6-105	%Rec	1	7/26/2020 12:22:13 AM	53942
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/26/2020 12:22:13 AM	53942
Toluene	ND	0.049	mg/Kg	1	7/26/2020 12:22:13 AM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/26/2020 12:22:13 AM	53942
Xylenes, Total	ND	0.097	mg/Kg	1	7/26/2020 12:22:13 AM	53942
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/26/2020 12:22:13 AM	53942

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

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

Page 2 of 8

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Project: Devon Cooter 16ST3H

Lab ID: 2007C46-003 **Matrix:** SOIL

Collection Date: 7/22/2020 11:30:00 AM Received Date: 7/24/2020 9:50:00 AM

Client Sample ID: #3 Devon Cooter Comp 3

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	160	60	mg/Kg	20	7/28/2020 8:39:31 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/28/2020 5:07:48 PM	53977
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/28/2020 5:07:48 PM	53977
Surr: DNOP	86.0	30.4-154	%Rec	1	7/28/2020 5:07:48 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/26/2020 12:45:38 AM	53942
Surr: BFB	91.6	66.6-105	%Rec	1	7/26/2020 12:45:38 AM	53942
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/26/2020 12:45:38 AM	53942
Toluene	ND	0.050	mg/Kg	1	7/26/2020 12:45:38 AM	53942
Ethylbenzene	ND	0.050	mg/Kg	1	7/26/2020 12:45:38 AM	53942
Xylenes, Total	ND	0.099	mg/Kg	1	7/26/2020 12:45:38 AM	53942
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/26/2020 12:45:38 AM	53942

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 3 of 8

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #3 Devon Cooter Comp 4

Project: Devon Cooter 16ST3H

Collection Date: 7/22/2020 11:45:00 AM

Lab ID: 2007C46-004

Matrix: SOIL

Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	7/28/2020 8:51:52 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/28/2020 5:32:24 PM	53977
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/28/2020 5:32:24 PM	53977
Surr: DNOP	82.0	30.4-154	%Rec	1	7/28/2020 5:32:24 PM	53977
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/26/2020 1:09:07 AM	53942
Surr: BFB	92.4	66.6-105	%Rec	1	7/26/2020 1:09:07 AM	53942
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/26/2020 1:09:07 AM	53942
Toluene	ND	0.049	mg/Kg	1	7/26/2020 1:09:07 AM	53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/26/2020 1:09:07 AM	53942
Xylenes, Total	ND	0.098	mg/Kg	1	7/26/2020 1:09:07 AM	53942
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/26/2020 1:09:07 AM	53942

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

- 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 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C46**

30-Jul-20

Client: Talon Artesia

Project: Devon Cooter 16ST3H

Sample ID: MB-54013 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54013 RunNo: 70680

Prep Date: 7/28/2020 Analysis Date: 7/28/2020 SeqNo: 2459573 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54013 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54013 RunNo: 70680

Prep Date: 7/28/2020 Analysis Date: 7/28/2020 SeqNo: 2459574 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C46**

30-Jul-20

Client: Talon Artesia

Project: Devon Cooter 16ST3H

Sample ID: LCS-53977 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 53977 RunNo: 70650

Prep Date: 7/27/2020 Analysis Date: 7/28/2020 SeqNo: 2458651 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 57 50.00 114 70 130

Surr: DNOP 6.1 5.000 122 30.4 154

Sample ID: MB-53977 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 53977 RunNo: 70650

Prep Date: 7/27/2020 Analysis Date: 7/28/2020 SeqNo: 2458652 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 14 10.00 136 30.4 154

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C46**

30-Jul-20

Client: Talon Artesia

Project: Devon Cooter 16ST3H

Sample ID: mb-53942 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **53942** RunNo: **70616**

Prep Date: 7/24/2020 Analysis Date: 7/25/2020 SeqNo: 2456612 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 910 1000 90.9 66.6 105

Sample ID: Ics-53942 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53942 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/25/2020 SeqNo: 2456613 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 87.1 72.5 106

Surr: BFB 1000 1000 100 66.6 105

Sample ID: mb-53947 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 53947 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/26/2020 SeqNo: 2456636 Units: %Rec

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

Surr: BFB 910 1000 90.5 66.6 105

Sample ID: Ics-53947 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 53947 RunNo: 70616

Prep Date: 7/24/2020 Analysis Date: 7/26/2020 SegNo: 2456637 Units: %Rec

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

Surr: BFB 1000 1000 103 66.6 105

Qualifiers:

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

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C46 30-Jul-20**

Client: Talon Artesia

Project: Devon Cooter 16ST3H

Sample ID: mb-53942	SampT	уре: МЕ	BLK	Tes	tCode: El	iles				
Client ID: PBS	Batch	n ID: 53 9	942	F	RunNo: 7	0616				
Prep Date: 7/24/2020	Analysis D	ate: 7/ 2	25/2020	S	SeqNo: 2	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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		102	80	120			

Sample ID: LCS-53942	SampT	ype: LC	s	Tes	8021B: Volat	tiles				
Client ID: LCSS	Batcl	n ID: 53 9	942	F	RunNo: 7	0616				
Prep Date: 7/24/2020	Analysis D)ate: 7/	25/2020	S	SeqNo: 2	456666	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: mb-53947	SampTyp	pe: MBLK	TestC	A Method	8021B: Volati	les			
Client ID: PBS	Batch II	D: 53947	Ru	616					
Prep Date: 7/24/2020	Analysis Dat	te: 7/26/2020	Se	Units: %Rec					
Analyte	Result	PQL SPK value	SPK Ref Val	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.0	1.000		101	80	120	•		

Sample ID: LCS-53947	SampT	ype: LC	s	Tes	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batch	ID: 53	947	F	RunNo: 7 0	0616				
Prep Date: 7/24/2020 Analysis Date: 7/26/2020 SeqNo: 2456690 Units: %Rec										
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										Qual
Surr: 4-Bromofluorobenzene	1.0		1 000		104	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 8 of 8



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 N	Number: 200	7C46		RcptNe	p: 1
Received By:	Scott Anderson	7/24/2020 9:50	:00 AM				
Completed By:	Juan Rojas	7/24/2020 10:1	6:57 AM		Harring	b-	
Reviewed By:	JR7/24	120			, .		
Chain of Cus							
	custody complete?		Yes	✓	No □	Not Present	
2. How was the	sample delivered?		Cou	<u>rier</u>			
Log In							
3. Was an atten	npt made to cool the	samples?	Yes	✓	No 🗆	NA □	
4. Were all sam	ples received at a ten	nperature of >0° C to 6.0°C	Yes	✓	No □	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	✓	No 🗆]	
6. Sufficient sam	nple volume for indica	ated test(s)?	Yes	✓	No 🗆		
7. Are samples ((except VOA and ON	G) properly preserved?	Yes	✓	No 🗌		
8. Was preserva	tive added to bottles	?	Yes		No 🗹	NA 🗆	
9. Received at le	east 1 vial with heads	pace <1/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sar	mple containers recei	ved broken?	Yes		No 🗸	# of preserved	
44.5					\Box	bottles checked	
	ork match bottle label ancies on chain of cu		Yes		No L	for pH:	or >12 unless noted)
	correctly identified on	• •	Yes	✓	No 🗌	Adjusted?	
13. Is it clear wha	t analyses were requ	ested?	Yes	\checkmark	No 🗌		Cha Tarilan
	ng times able to be mustomer for authoriza		Yes	✓	No 🗌	Checked by:	me Try/re
-	ing (if applicable	•				•	
	tified of all discrepan		Yes		No 🗆	NA 🗹	
Person	Notified:		ate			···	
By Who	The best per age on 300 regulator	Name of the second seco	ia: ∏ eM	ail 🔲	Phone Fa	.: ix ∏ In Person	
Regardi	ing:						
Client In	nstructions:	And the second s			***************************************	AAMAHAMAMAMAAAA	
16. Additional re	marks:						<u> </u>
17. <u>Cooler Infor</u>	mation						
/ Conlen No	Temp C Cand	ition Seaf Intact Seal N	lo Seal D	ate	Signed By		
[1	2.9 Good						

C	hain-	of-Cu	stody Reco	rd	Turn-	Around	Time:		4 clay				3 -	A		F	w	TR	loi	NW	4 E I	ut	<i>A</i> . II_	_
Client:	Talon	LPE			SI کھی	tandard	·	Rush	4 clay	, 1		Ľ							AB					
		Texas S	St .		Projec	ct Name	e :				W.		,	www	/.hali	lenvi	ironn	nent	al.co	m				
Mailing.	Address	: Arte	sia, NM 88210	· · · · · ·	De	2000		57072	165T3H		49	01 H	awki	ns N	JE -	Alb	иqиє	erque	e, NN	√l 87°	109			
					Proje	ct #:			•		Te	el. 50	5-34	5-39				_	345~		,			anastri Astri
Phone #	t: 575	-441-09 8	30			<u>2007</u> ct Mana	94	, 35	1:01						A		sis l	Req	uest			H		
email o	Fax#:	(575)	746-8905		Proje	ct Mana	iger:	B1-		73	RO)	တ			Ì	SO ₄			ent)					
QA/QC I			☐ Level 4 (Full Val	idation)	Rebe	ecca Po	ons	_		TMB's (8021)	/DRO/MRO)	PCB's		8270SIMS		, PO4,			ent/Abs					
Accredi		□ Az Co	mpliance		Samp On Ic	oler: Z	}₁}\ '⊊'Ye:	A19	SS Dino	_	30 / DF	7808/s	504.1)		s	NO ₂		(AC	(Prese					
□ EDD					# of C	Coolers:	. .			胃胃	9	icide	ğ	3310	etal	8		<u>-</u>	E.					
			Carrella Nama		Conta	ainer	Prese		4-0 = 2.5 HEAL NO. 2007C46	BTEX / MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	©F, Br, NO ₃ , NO ₂ , PO₄,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
		Matrix	Sample Name Beyow Cooter	2 1	туре		Туре	ì			χ	80				A	ω,	<u> </u>		十	-	+	\neg	$\dashv \dashv$
7-22		-	Devon Cooter Devon Cooter	Compl		1 90 6	<u> </u>	TCE	-601	X	1					$\frac{\Lambda}{\lambda}$					+		+	
í	j]; SAM		DCUDN COOTER	Compz		 			-002	1	X			_		X		_		-				+
	11.30 AM		DECON COOTER	Comp3	_				7003	X	+					χ				\dashv	\dashv	_	\dashv	-
7-22	11,745_		DEVON TOTEL	Comp4		<u> </u>			-004	^	X					_/ι			\vdash	_	\dashv		\dashv	
					-		-			ļ									\vdash	\dashv	-	+		-
							 		.,	-									\vdash	_		+		+
										1			-									+		
							-			ļ	<u> </u>					i			$\vdash \vdash$		\dashv	_	-	
	, <u>, , , , , , , , , , , , , , , , , , </u>								1.00		 										-	十		
							_		-	\vdash											\dashv	\neg	\dashv	_
				-																			_	
Date: عرب	Tîme:	Relinquish	led by		Receiv	/ed by:	Via:		Date Time	Re	mark		Ple	ase	- cc	the	fol	low	ing '		em	—— ail:	- 1	
rei Belkgar						Mummies 7/13/20 1805					dkin:	s@ta	aloni	pe.c	om								ĺ	
Date: Time: Relinguished by:					Received by: Via: V Date Time					ons(incla	-													
If necessary, samples submitted to Hall Environmental may be su							accredited	laborator		is pos	sibility.	Any s	иђ-сог	itracte	d data	will be	e clear	ly nota	ated on	ı the ar	nalytica	ıl repor	t.	
						51	a 4																	



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

August 13, 2020

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

RE: Devon Cooter 5H-3H CTB OrderNo.: 2008237

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 6 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2008237**Date Reported: **8/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-1A

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 1:10:00 PM

 Lab ID:
 2008237-001
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	510	60	mg/Kg	20	8/10/2020 5:10:36 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	8/7/2020 12:30:35 PM	54229
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/7/2020 12:30:35 PM	54229
Surr: DNOP	115	30.4-154	%Rec	1	8/7/2020 12:30:35 PM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/7/2020 2:27:56 PM	54224
Surr: BFB	99.8	75.3-105	%Rec	1	8/7/2020 2:27:56 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 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 11

CLIENT: Talon Artesia

Analytical Report

Lab Order **2008237**Date Reported: **8/13/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-2A

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 12:50:00 PM

 Lab ID:
 2008237-002
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	18000	600	mg/Kg	200	8/12/2020 1:12:21 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 12:59:25 PM	54229
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/7/2020 12:59:25 PM	54229
Surr: DNOP	110	30.4-154	%Rec	1	8/7/2020 12:59:25 PM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/7/2020 3:38:27 PM	54224
Surr: BFB	96.4	75.3-105	%Rec	1	8/7/2020 3:38:27 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 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 2 of 11

Analytical Report

Lab Order **2008237**Date Reported: **8/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-3A

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 1:20:00 PM

 Lab ID:
 2008237-003
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	2600	150	mg/Kg	50	8/11/2020 10:42:00 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 1:09:02 PM	54229
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/7/2020 1:09:02 PM	54229
Surr: DNOP	107	30.4-154	%Rec	1	8/7/2020 1:09:02 PM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2020 4:48:49 PM	54224
Surr: BFB	101	75.3-105	%Rec	1	8/7/2020 4:48:49 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 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 3 of 11

Analytical Report

Lab Order **2008237**Date Reported: **8/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-4A

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 2:15:00 PM

 Lab ID:
 2008237-004
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	720	60	mg/Kg	20	8/10/2020 6:12:37 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2020 10:23:24 AM	54229
Motor Oil Range Organics (MRO)	340	48	mg/Kg	1	8/10/2020 10:23:24 AM	54229
Surr: DNOP	110	30.4-154	%Rec	1	8/10/2020 10:23:24 AM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/7/2020 5:12:17 PM	54224
Surr: BFB	99.4	75.3-105	%Rec	1	8/7/2020 5:12:17 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 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

Page 4 of 11

Analytical Report Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: N-BG

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 12:40:00 PM

 Lab ID:
 2008237-005
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1200	60	mg/Kg	20	8/10/2020 6:25:01 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/7/2020 1:28:19 PM	54229
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/7/2020 1:28:19 PM	54229
Surr: DNOP	114	30.4-154	%Rec	1	8/7/2020 1:28:19 PM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2020 5:35:48 PM	54224
Surr: BFB	96.2	75.3-105	%Rec	1	8/7/2020 5:35:48 PM	54224
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/7/2020 5:35:48 PM	54224
Toluene	ND	0.048	mg/Kg	1	8/7/2020 5:35:48 PM	54224
Ethylbenzene	ND	0.048	mg/Kg	1	8/7/2020 5:35:48 PM	54224
Xylenes, Total	ND	0.096	mg/Kg	1	8/7/2020 5:35:48 PM	54224
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/7/2020 5:35:48 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 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 5 of 11

Analytical Report

Lab Order **2008237**Date Reported: **8/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: W-BG

 Project:
 Devon Cooter 5H-3H CTB
 Collection Date: 8/4/2020 12:30:00 PM

 Lab ID:
 2008237-006
 Matrix: SOIL
 Received Date: 8/6/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	600	61	mg/Kg	20	8/10/2020 6:37:25 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	120	9.5	mg/Kg	1	8/10/2020 10:50:12 AM	54229
Motor Oil Range Organics (MRO)	340	48	mg/Kg	1	8/10/2020 10:50:12 AM	54229
Surr: DNOP	97.7	30.4-154	%Rec	1	8/10/2020 10:50:12 AM	54229
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/7/2020 5:59:16 PM	54224
Surr: BFB	96.9	75.3-105	%Rec	1	8/7/2020 5:59:16 PM	54224
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	8/7/2020 5:59:16 PM	54224
Toluene	ND	0.050	mg/Kg	1	8/7/2020 5:59:16 PM	54224
Ethylbenzene	ND	0.050	mg/Kg	1	8/7/2020 5:59:16 PM	54224
Xylenes, Total	ND	0.099	mg/Kg	1	8/7/2020 5:59:16 PM	54224
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/7/2020 5:59:16 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 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 6 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008237

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

TestCode: EPA Method 300.0: Anions Sample ID: MB-54292 SampType: mblk

Client ID: PBS Batch ID: 54292 RunNo: 70965

Prep Date: 8/10/2020 Analysis Date: 8/10/2020 SeqNo: 2472350 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54292 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54292 RunNo: 70965

1.5

Prep Date: 8/10/2020 Analysis Date: 8/10/2020 SeqNo: 2472351 Units: mg/Kg

15.00

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** PQL HighLimit Qual Analyte 0

91.3

Qualifiers:

Chloride

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

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

Page 7 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008237**

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

Sample ID: 2008237-001AMS	SampT	уре: М S	}	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-1A	Batch	ID: 54 2	229	F	lunNo: 7 (0967				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	eqNo: 24	472593	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.26	0	104	47.4	136			
Surr: DNOP	5.4		4.926		110	30.4	154			

Sample ID: 2008237-001AMSD	Sampi	ype: MS	טפ	i es	Code: El	A Method	8015M/D: DIE	esei Range	Organics	
Client ID: S-1A	Batch	ID: 54 2	229	F	RunNo: 7 0	0967				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	SeqNo: 24	472594	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	49.75	0	87.3	47.4	136	16.3	43.4	
Blood Hango Organico (Brto)	43	10	49.73	U	07.5	47.4	100	10.5	45.4	

Sample ID: LCS-54229	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 54 2	229	F	RunNo: 70	0967				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	SeqNo: 24	472657	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	125	70	130			
Surr DNOP	6.6		5 000		131	30.4	154			

TostCodo: EDA Mothod 9015M/D: Diosal Pango Organics

Sample ID. WIB-34229	Sampi	ype. we	DLN	165	Code. Er	A Welliou	OU ISIVI/D. DIE	sei Kange	e Organics	
Client ID: PBS	Batch	1D: 54 2	229	F	RunNo: 70	967				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	SeqNo: 2 4	172660	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	15		10.00		145	30.4	154			

Sample ID: LCS-54255	SampType	e: LCS	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID	54255	F	RunNo: 7 0	976				
Prep Date: 8/7/2020	Analysis Date	e: 8/10/2020	S	SeqNo: 24	172908	Units: %Rec	;		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DMOD	5.0	5,000		100	30.4	15/			

 Surr: DNOP
 5.0
 5.000
 100
 30.4
 154

SampType: MRI K

Sample ID: MB-54255 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 54255 RunNo: 70976
Prep Date: 8/7/2020 Analysis Date: 8/11/2020 SeqNo: 2472909 Units: %Rec

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

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

Sample ID: MR-54220

S % Recovery outside of range due to dilution or matrix

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

Page 8 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008237**

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

Sample ID: MB-54255 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 54255 RunNo: 70976

Prep Date: 8/7/2020 Analysis Date: 8/11/2020 SeqNo: 2472909 Units: %Rec

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

Surr: DNOP 5.7 10.00 56.6 30.4 154

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 9 of 11

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008237**

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

Sample ID: 2008237-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: S-1A Batch ID: 54224 RunNo: 70921 Prep Date: 8/6/2020 Analysis Date: 8/7/2020 SeqNo: 2470444 Units: mq/Kq Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 47 23 54 88.7 61.3 114 Surr: BFB 1000 941.6 108 75.3 105 S

Sample ID: 2008237-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-1A Batch ID: 54224 RunNo: 70921 Prep Date: 8/6/2020 Analysis Date: 8/7/2020 SeaNo: 2470445 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10.5 23 4.9 24.32 20 Gasoline Range Organics (GRO) 95.4 61.3 114 Surr: BFB 1000 75.3 105 S 972.8 107

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

Sample ID: mb-54224 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 54224 RunNo: 70921 Prep Date: 8/6/2020 Analysis Date: 8/7/2020 SeqNo: 2470491 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **PQL** LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 980 Surr: BFB 1000 98.3 75.3 105

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 10 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008237**

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

Sample ID: 2008237-002ams	SampT	уре: МЅ	3	Tes	PA Method	8021B: Volat	iles			
Client ID: S-2A	Batcl	n ID: 54 2	224	F						
Prep Date: 8/6/2020	Analysis D)ate: 8/	7/2020	8	SeqNo: 24	470495	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.097	0.9709	0	114	78.1	153			
Benzene	0.97	0.024	0.9709	0	100	76.3	120			
Toluene	1.0	0.049	0.9709	0	104	78.5	120			
Ethylbenzene	1.0	0.049	0.9709	0	107	78.1	124			
Xylenes, Total	3.1	0.097	2.913	0	107	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		0.9709		109	80	120			

Sample ID: 2008237-002amsd	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-2A	Batch	ID: 542	224	F	RunNo: 70	0921				
Prep Date: 8/6/2020	Analysis D	ate: 8/	7/2020	S	SeqNo: 24	470496	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9921	0	99.8	76.3	120	1.56	20	
Toluene	1.0	0.050	0.9921	0	104	78.5	120	2.71	20	
Ethylbenzene	1.1	0.050	0.9921	0	107	78.1	124	2.46	20	
Xylenes, Total	3.2	0.099	2.976	0	108	79.3	125	2.52	20	
Surr: 4-Bromofluorobenzene	1.1		0.9921		110	80	120	0	0	

Sample ID: LCS-54224	Samp1	mpType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	h ID: 542	224	F	RunNo: 7 0	0921				
Prep Date: 8/6/2020	Analysis D	Date: 8/	7/2020 SeqNo: 2470537 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: mb-54224	SampT	SampType: MBLK TestCode: EPA Method Batch ID: 54224 RunNo: 70921						hod 8021B: Volatiles					
Client ID: PBS	Batch	n ID: 54 2	224	F									
Prep Date: 8/6/2020	Analysis Date: 8/7/2020 SeqNo: 2470539 Ut							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.
- 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 11 of 11



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 Arte	esia	Work	Order Number	r: 200	8237				RcptNo:	1
Received By:	Juan Roj	as	8/6/202	0 8:00:00 AM			4	Lean	39		
							6	Jinn	a.g.		
Completed By:	Juan Roj	as	1. /	0 8:21:27 AM			5	, with	2		
Reviewed By:	LIS		8/6/2	20							
Chain of Cus	stody										
1. Is Chain of C	Custody comp	plete?			Yes	~		No		Not Present	
2. How was the	sample deli	vered?			Cou	<u>rier</u>					
Log In											
3. Was an atter	mpt made to	cool the sampl	es?		Yes	✓		No		NA 🗌	
4. Were all sam	ples receive	d at a temperat	ure of >0° C	to 6.0°C	Yes			No	V	NA 🗆	
						Not Fr	ozen				
5. Sample(s) in	proper conta	ainer(s)?			Yes	V		No	ш		
6. Sufficient san	nple volume	for indicated te	st(s)?		Yes	V		No			
7. Are samples	(except VOA	and ONG) pro	perly preserve	ed?	Yes	V		No			
8. Was preserva	ative added t	o bottles?			Yes			No	V	NA 🗆	
9. Received at l	east 1 vial wi	th headspace	<1/4" for AQ V	OA?	Yes			No		NA 🗸	TO
10. Were any sa	mple contain	ers received bi	oken?		Yes			No	v		/ .
										# of preserved bottles checked	8/6/70
11. Does paperw					Yes	V		No		for pH:	12 unless noted)
		nain of custody)			V-2	~		No		Adjusted?	>12 unless noted)
12. Are matrices					Yes	V		No No			
13. Is it clear wha										Checked by:	
Were all hold (If no, notify of		authorization.)			Yes	Y		No	Ц [Checked by.	-
Special Hand	ling (if ap	plicable)									
15. Was client no	otified of all o	discrepancies v	ith this order?		Yes			No		NA 🗹	
Person	Notified:			Date [
By Wh	om:			Via: [_ eM	ail 🗌	Phone	е 🗌	Fax	☐ In Person	
Regard	ling:				-		-				
Client I	nstructions:							-			
16. Additional re	emarks:										
17. Cooler Info	rmation										
Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Sia	ned E	3v		
1	3.3	Good		7.53			9				
2	2.1	Good									
3	-0.4	Good									

	hain-	-of-C	ustody Record	Turn-Around	Time: λ	1 Day					.ea. 10		PART	7 11 15	3		ENT		
Client:	Talon	LPE		☐ Standard	□ Rush	o sug	1	*	1					7	100 100		ATC		-
	408 W Address	Texas		Project Name	e:	54-				W	ww.	naller	viron	men	tal.co	m		- 4 -	. ш
waming	Address	· Art	esia, NM 88210	Project #:	Cooter	3 df CAB)1 Ha I. 50			5	Fax	505	-345-4	1 8710 1107	9		
Phone	#: 575	-441-09	980	200194	. 351-01							Mary mary of the Control	No. of Concession, Name of Street, or other Publisher, or other Publisher, Name of Street, or other Pu	Red	uest				
email o	r Fax#:	(575)	746-8905	Project Mana	ager:		1	0				SO,			aut)				
QA/QC	Package: ndard		☐ Level 4 (Full Validation)	Rebecca Po	ons		TMB's (8021)	DRO/MRO)	PCB's		8270SIMS	PO.			nt/Abse				
□ NEI		□ Az C	compliance	On Ice:	以 Yes	Minghum. □ No	-	30/DF	Pesticides/8082	504.1)	or 827	NO ₃ .		(AC	(Prese				
□ EDI	(Type)			# of Coolers: Cooler Temp	THE RESERVE TO STATE OF THE PARTY OF THE PAR	-checklist	MTBE	15D(G	esticide	ethod	y 8310	Meta Ir. NO	OA)	emi-V	oliform				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX /	(TPB:8015D(GRO/	8081 Pe	EDB (Method 504.1)	PAHs by 8310 or	C. F. Br. No.	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
814	\$ 640		5-LA	far	-111	-001		V				0	1						
	12150		5-2A		-	-002		V											
	1:20		S-3A			-003		-				V							
	245		5-4 A	/		-00U		_				L							
	12,00		N-BC-	/		-005		~	-				1						
	12130		W-BG	-		-006	·			+	+	1						_	
						-4												+	
										1									
									+	+	+	+					+	+	
				- 210					1										
8/420 1305 Richard Polo				Received by:	Via: Via:	Date Time 8 5 20 30 Date Time 6 6 70 6 00 es. This serves as notice of this	5	Rpc Bsir	kins(ns@ nclair	@tale talor @tal	onipe. onip	e.com com e.con	1			∕ia er			



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

September 01, 2020

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

RE: Devon Cooter 16st 3H (Cooter 3H) OrderNo.: 2008D73

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/26/2020 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

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: SIA S.SW 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 1:00:00 PM

 Lab ID:
 2008D73-001
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/27/2020 5:57:02 PM	54709
Surr: BFB	102	70-130	%Rec	1	8/27/2020 5:57:02 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/27/2020 12:33:59 PM	1 54712
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/27/2020 12:33:59 PM	1 54712
Surr: DNOP	96.9	30.4-154	%Rec	1	8/27/2020 12:33:59 PM	1 54712

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 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: SIA 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 1:05:00 PM

 Lab ID:
 2008D73-002
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analys	: DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/27/2020 7:23:03 PM	54709
Surr: BFB	104	70-130	%Rec	1	8/27/2020 7:23:03 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/27/2020 12:43:46 PM	1 54712
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/27/2020 12:43:46 PM	1 54712
Surr: DNOP	74.2	30.4-154	%Rec	1	8/27/2020 12:43:46 PM	1 54712

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 2 of 12

Lab Order **2008D73**

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: SIA N.SW 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 1:10:00 PM

 Lab ID:
 2008D73-003
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/27/2020 8:48:53 PM	54709
Surr: BFB	105	70-130	%Rec	1	8/27/2020 8:48:53 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE O	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	8/27/2020 12:53:34 PM	1 54712
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/27/2020 12:53:34 PM	1 54712
Surr: DNOP	82.4	30.4-154	%Rec	1	8/27/2020 12:53:34 PM	1 54712

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 3 of 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2A W.SW 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 1:15:00 PM

 Lab ID:
 2008D73-004
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 80
 60
 mg/Kg
 20
 8/30/2020 9:10:03 PM
 54785

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 4 of 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A NSW 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 2:10:00 PM

 Lab ID:
 2008D73-005
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 160 60 mg/Kg 20 8/30/2020 9:22:23 PM 54785 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 8/27/2020 9:17:27 PM Surr: BFB 70-130 8/27/2020 9:17:27 PM 54709 102 %Rec 1 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.9 mg/Kg 8/27/2020 1:03:23 PM 54712 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/27/2020 1:03:23 PM 54712 Surr: DNOP 82.7 30.4-154 %Rec 8/27/2020 1:03:23 PM 54712

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 5 of 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A ESW 2'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 2:15:00 PM

 Lab ID:
 2008D73-006
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	160	60	mg/Kg	20	8/30/2020 9:37:20 AM	54786
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/27/2020 9:46:00 PM	54709
Surr: BFB	103	70-130	%Rec	1	8/27/2020 9:46:00 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/27/2020 1:13:12 PM	54712
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2020 1:13:12 PM	54712
Surr: DNOP	107	30.4-154	%Rec	1	8/27/2020 1:13:12 PM	54712

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

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

Page 6 of 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A SSW 2'

Project: Devon Cooter 16st 3H (Cooter 3H) Collection Date: 8/24/2020 2:20:00 PM

Lab ID: 2008D73-007 **Matrix:** SOIL **Received Date:** 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	80	60	mg/Kg	20	8/30/2020 10:14:33 AM	54786
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/27/2020 10:14:31 PM	54709
Surr: BFB	104	70-130	%Rec	1	8/27/2020 10:14:31 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	8/27/2020 1:23:02 PM	54712
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/27/2020 1:23:02 PM	54712
Surr: DNOP	86.2	30.4-154	%Rec	1	8/27/2020 1:23:02 PM	54712

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 7 of 12

CLIENT: Talon Artesia

Analytical Report

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WBG 0'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 2:30:00 PM

 Lab ID:
 2008D73-008
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	180	60	mg/Kg	20	8/30/2020 10:26:57 AM	54786
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/27/2020 10:43:05 PM	54709
Surr: BFB	101	70-130	%Rec	1	8/27/2020 10:43:05 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/27/2020 1:33:01 PM	54712
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/27/2020 1:33:01 PM	54712
Surr: DNOP	71.0	30.4-154	%Rec	1	8/27/2020 1:33:01 PM	54712

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 8 of 12

Lab Order **2008D73**Date Reported: **9/1/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: NBG 0'

 Project:
 Devon Cooter 16st 3H (Cooter 3H)
 Collection Date: 8/24/2020 2:35:00 PM

 Lab ID:
 2008D73-009
 Matrix: SOIL
 Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	170	60	mg/Kg	20	8/30/2020 10:39:22 AM	54786
EPA METHOD 8015D MOD: GASOLINE RAI	NGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/27/2020 11:11:36 PM	54709
Surr: BFB	103	70-130	%Rec	1	8/27/2020 11:11:36 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/27/2020 1:42:58 PM	54712
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2020 1:42:58 PM	54712
Surr: DNOP	54.0	30.4-154	%Rec	1	8/27/2020 1:42:58 PM	54712

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

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

Page 9 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

01-Sep-20

2008D73

WO#:

Client: Talon Artesia

Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: MB-54785 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54785 RunNo: 71487

Prep Date: 8/30/2020 Analysis Date: 8/30/2020 SeqNo: 2496349 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-54785 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54785 RunNo: 71487

Prep Date: 8/30/2020 Analysis Date: 8/30/2020 SeqNo: 2496350 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.5 90 110

Sample ID: MB-54786 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54786 RunNo: 71489

Prep Date: **8/30/2020** Analysis Date: **8/30/2020** SeqNo: **2496475** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-54786 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54786 RunNo: 71489

Prep Date: 8/30/2020 Analysis Date: 8/30/2020 SeqNo: 2496476 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.6 90 110

Qualifiers:

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

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

Page 10 of 12

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008D73** *01-Sep-20*

Client: Talon Artesia

Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: LCS-54694 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54694 RunNo: 71442

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494270 Units: %Rec

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

Surr: DNOP 4.0 5.000 80.5 30.4 154

Sample ID: LCS-54712 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54712 RunNo: 71442

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494271 Units: mg/Kg

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

Diesel Range Organics (DRO) 39 10 50.00 0 77.1 70 130

Surr: DNOP 4.8 5.000 96.5 30.4 154

Sample ID: MB-54694 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **54694** RunNo: **71442**

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494272 Units: %Rec

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

Surr: DNOP 7.5 10.00 75.1 30.4 154

Sample ID: MB-54712 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 54712 RunNo: 71442

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494273 Units: mq/Kq

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

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 106 30.4 154

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 11 of 12

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2008D73 01-Sep-20

WO#:

Client: Talon Artesia

Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: mb-54709 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54709 RunNo: 71441

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494201 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 540 500.0 107 70 130

Sample ID: Ics-54709 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54709 RunNo: 71441

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494202 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 5.0 25.00 O 88.2 130

Surr: BFB 510 500.0 102 70 130

Sample ID: 2008d73-001ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SIA S.SW 2' Batch ID: 54709 RunNo: 71441

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494204 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.8 24.13 2.344 91.6 49.2 122

 Gasoline Range Organics (GRO)
 24
 4.8
 24.13
 2.344
 91.6
 49.2
 122

 Surr: BFB
 520
 482.6
 108
 70
 130

Sample ID: 2008d73-001amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SIA S.SW 2' Batch ID: 54709 RunNo: 71441

Prep Date: 8/26/2020 Analysis Date: 8/27/2020 SeqNo: 2494205 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.37 2.344 87.9 49.2 122 2.85 20 Surr: BFB 510 487.3 106 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 12



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

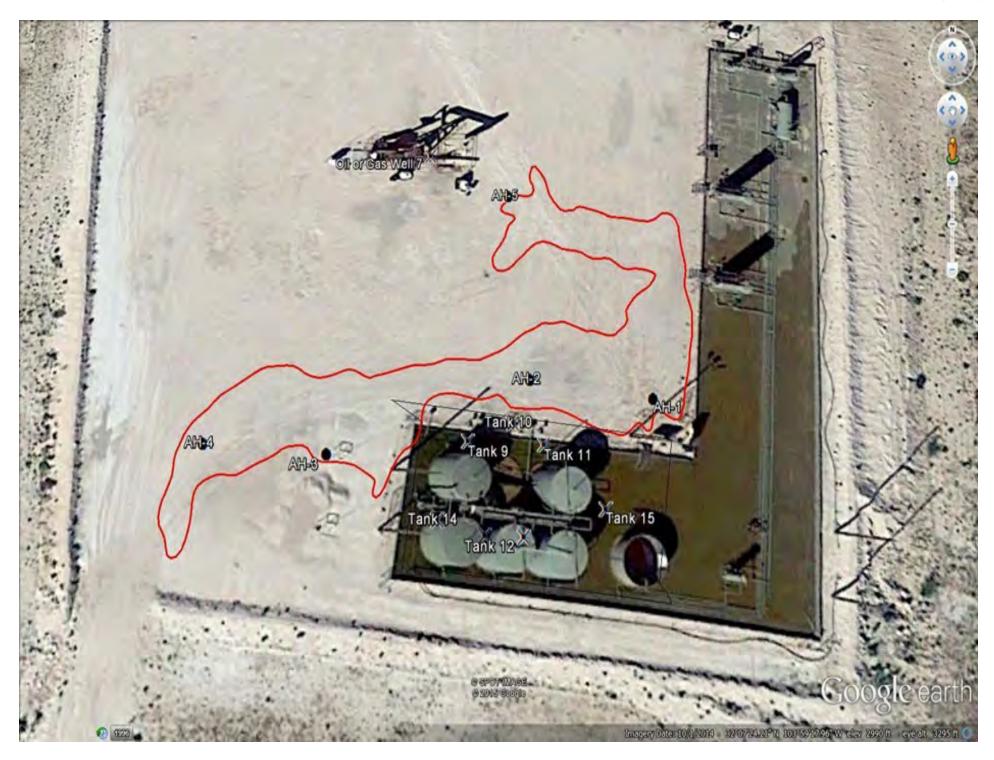
TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Talon Artes	ia	Work	Order Nun	nber: 2008	BD73		ReptNo	1
Received By:	Cheyenne	Cason	8/26/20	20 8:00:00	АМ				
Completed By:	Juan Roja	s	8/26/20	20 8:34:29	AM		Hans &		
Reviewed By:	Em	8/24/2	٥						
Chain of Cus	stody								
1. Is Chain of C	Custody compl	ete?			Yes	✓	No 🗌	Not Present	
2. How was the	sample deliv	ered?			<u>Cour</u>	<u>ier</u>			
Log In 3. Was an atter	mpt made to c	ool the sample	es?		Yes	✓	No 🗆	NA 🗆	
4. Were all sam	ples received	at a temperati	ure of >0°C	o 6.0°C	Yes	✓	No 🗌	na 🗆	
5. Sample(s) in	proper contai	ner(s)?			Yes	✓	No 🗌		
6. Sufficient san	nple volume fo	or indicated tes	st(s)?		Yes	✓	No 🗌		
7. Are samples	(except VOA a	and ONG) prop	erly preserve	d?	Yes	✓	No 🗌		
8. Was preserva	ative added to	bottles?			Yes		No 🗹	NA \square	
9. Received at le		•		OA?	Yes		No 🗌	NA 🗹	,
10. Were any sa	mple containe	rs received bro	oken?		Yes		No 🗹	# of preserved	
11. Does paperw (Note discrep					Yes	✓	No 🗆	bottles checked for pH:	>12 unless noted)
12. Are matrices	correctly ident	ified on Chain	of Custody?		Yes	✓	No 🗆	Adjusted? _	
13. Is it clear wha	it analyses we	re requested?				✓	No 🗌		100 Cl- 17-
14. Were all hold (If no, notify of	_				Yes	✓	No 🗌	Checked by	re 8/26/20
Special Hand	ling (if app	licable)							
15. Was client no	otified of all dis	screpancies wi	th this order?		Yes		No 🗆	NA 🗹	
By Who	2			Date Via:	e eMa		Phone Fax	☐ In Person	
16. Additional re	marks:								_
17. <u>Cooler Info</u>	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite	Signed By		
1 2	5.2 5.4	Good Good						-	
3	2.2	Good							
4	0.0							-1	

C	hain-	of-Cu	stody Record	Turn-Around	n-Around Time: 4-Jay					<u>-</u> -			en	V	TR	O	N			AL	
Client:	Talon I	LPE		☐ Standard															TO		
		Texas S	St	Project Name	Devon Coo	ter 165+3H				v	∧ ∕ ∿ ∕	.hall	envii	ronn	nent	al.co	m				
Mailing .			sia, NM 88210	- T	(cooter 3	?#)		490)1 Ha	awkir	ns N	E -	Albı	ıque	erqu	e, N N	vi 871	109			
		7110	cia, itili con i	Project #: 70	0794.351.0	1		Te	l. 50	5-34	5-39	75	F	ax :	505-	345-	4107	,			
———— Phone #	± 575	-441-098	30						CASTR CASTR			Αı	naly	sis	Req	uest					
email or			746-8905	Project Mana	ıger:		1)	(0;					SO ₄			(file					
QA/QC F	ackage:		☐ Level 4 (Full Validation)	Rebecca Po	ons		TMB's (8021)	TPH:8015D(GRO/DRO/MRO)	PCB's		8270SIMS		P.			Total Coliform (Present/Absent)					
Accredi		□ Az Co	mpliance	Sampler:			IMB	비	1082				$ \zeta_2 $			ese					
□ NEL	AC	□ Other	•	On Ice		⊡ No.		8	Pesticides/8082	504.1)	o o	- SE	[ج		8	ē			ŀ		
□ EDD	(Type)	T		# of Coolers.	Age to Discribe and and it has been deeper and and and	Dene Constitution	MTBE,)Q(뱒	thod	831	Viet	ž	3	Ti_	iforn				İ	
]		Cooler nemp	(including or)		1 -	3015		S S	ड्र	8 8	Ŗ.	2	(Se	ड					
_			O a ward a Name of	Container	Preservative Type	HEAL No. 1008073	BTEX,	꿆	8081	EDB (Method	PAHs by 8310 or	RCRA 8 Metals	CAF, Br, NO3, NO2,	8260 (VOA)	8270 (Semi-VOA)	otal			ŀ		
	Time	Matrix	Sample Name	Type and #	Ice/cool	-001	<u> </u>	7	<u> </u>	"				۵.	<u> </u>					+	-
8/24/20		Soil	SIA 5.5W 2'	104	*CE/C001	-007		7		\dashv			\dashv					+		+	\dashv
-	1.05	 	9//	 	 		 	V		╼┼							-	\dashv	+	+	+
	1:10		SIA N.SW 2'	<u> </u>		-003	ļ <u>.</u>	~					v							\dashv	\dashv
	1:15		524 W.SW 21	 \	-	-004	-			-								\dashv	+	+	+
	2:10		54A NSW 21	 		7005		V /			_	-	V				 		\dashv	+	
	2:15		54A ESW 21	/		-006	_	V			\rightarrow		<i>V</i>						_	\bot	
	2:20		54A SSW 2'		\ .	-007		V		_			V							_	_
	2,30	\	WBG O'	1		-008	<u> </u>		_	_			<u> </u>				_	_	_		
7	2:35)	NBG 0'		1	-00°		N			_		<u> </u>						_	\bot	\perp
					-															\bot	
							ļ													_ _	
							<u> </u>													\perp	
Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time 8/25/20 1202	1	nark Dad	dkins	Ple @ta	ase	e cc pe.c	the om	fol	low B/H	ing De	via ه موس	ema Dii	ail: ect		
Tate:	Time	Relinquis	ned by:	Received by:	Via:	Date Time		Doi	ons@ nclai	ranta	لمماد			M	1/0#	t 20	08 C)42 ~~	1 60 9.4-1	3.15 2.0	:0.3
<u> </u>	198	1 CVE		Col	Class	8/26/20 0800	15.	5 ibility	Anv si	آءَ. ib-cont	<u>5 - 2</u> tracter	∠ <u>5</u>	. <u>6-</u> will be	رک۔ clear	iv not	5,7	the ar	7,3 nalvtic≈	report	<u> </u>	<u></u>

_			_	
Sample Date 07/02/2015	Total BTEX	Chloride (mg/kg)	GRO C6-C10	DRO >C10-C28
Depth				
AH-1	<0.600	2360	109	11600
@Surface				
AH-1 @ 6"	< 0.300	2320	<10.0	1250
AH-1 @ 1'	< 0.300	208	<10.0	1360
AH-2	1.60	1260	214	30000
@Surface				
AH-2 @ 6"	.658	960	41.1	2720
AH-2 @ 1'	< 0.300	160	31.1	1210
AH-3	< 0.600	1790	123	21400
@Surface				
AH-3 @ 1'	< 0.300	64.0	<10.0	373
AH-4	.785	2040	214	19700
@Surface				
AH-4 @ 1'	< 0.300	112	<10.0	785
AH-5	< 0.600	336	144	11000
@Surface				
AH-5 @ 1'	< 0.300	240	14.9	1640
	_			





July 13, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COOTER 16 ST.5H

Enclosed are the results of analyses for samples received by the laboratory on 07/06/15 8:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-1 SURFACE (H501708-01)

BTEX 8021B	mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.300	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.600	0.600	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	61-154	!						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	109	10.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	11600	10.0	07/07/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	229 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

10005 NM, 00240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-1 6 " (H501708-02)

BTEX 8021B	mg/	kg	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	< 0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	< 0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	< 0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	61-154	!						
Chloride, SM4500CI-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	1250	10.0	07/07/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	86.4 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-1 1' (H501708-03)

BTEX 8021B	mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	< 0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	61-154	!						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	1360	10.0	07/07/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	102 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Sample ID: AH-2 SURFACE (H501708-04)

EDDY COUNTY

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	0.149	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	1.45	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	1.60	0.600	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	143 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	50.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	30000			ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	136 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	283 9	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact Sample Received By: Project Number: ALF-15-011 Jodi Henson

Project Location: **EDDY COUNTY**

Sample ID: AH-2 6" (H501708-05)

BTEX 8021B	<0.050 0.050	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.113 0.050 0.089 0.050 0.457 0.150	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	0.113	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	0.089	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.457	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	0.658	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	41.1	10.0	07/08/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	2720	10.0	07/08/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	100 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	132 %	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-2 1' (H501708-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	< 0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	< 0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.280	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	31.1	10.0	07/08/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	1210	10.0	07/08/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	90.69	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.5	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-3 SURFACE (H501708-07)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	nk BS 2.23	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.485	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.600	0.600	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	123	50.0	07/08/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	21400	50.0	07/08/2015	ND	183	91.3	200	1.55	
Surrogate: 1-Chlorooctane	115 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	235 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-3 1' (H501708-08)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	61-154	!						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	373	10.0	07/08/2015	ND	207	104	200	7.40	
Surrogate: 1-Chlorooctane	90.1 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.0 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: **EDDY COUNTY**

Sample ID: AH-4 SURFACE (H501708-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.785	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	0.785	0.600	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/08/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	50.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	19700	50.0	07/08/2015	ND	207	104	200	7.40	
Surrogate: 1-Chlorooctane	144 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	400 9	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact Sample Received By: Project Number: ALF-15-011 Jodi Henson

Project Location: **EDDY COUNTY**

Sample ID: AH-4 1' (H501708-10)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	61-154	!						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/09/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	785	10.0	07/08/2015	ND	207	104	200	7.40	
Surrogate: 1-Chlorooctane	85.0 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	66.3 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact
Project Number: ALF-15-011 Sample Received By: Jodi Henson

Project Location: EDDY COUNTY

Sample ID: AH-5 SURFACE (H501708-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.493	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.600	0.600	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/09/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	144	10.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	11000	10.0	07/08/2015	ND	207	104	200	7.40	
Surrogate: 1-Chlorooctane	119 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	190 9	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2015 Sampling Date: 07/02/2015

Reported: 07/13/2015 Sampling Type: Soil

Project Name: COOTER 16 ST.5H Sampling Condition: Cool & Intact Sample Received By: Project Number: ALF-15-011 Jodi Henson

Project Location: **EDDY COUNTY**

Sample ID: AH-5 1' (H501708-12)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	lank BS 2.23	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/09/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.9	10.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	1640	10.0	07/08/2015	ND	207	104	200	7.40	
Surrogate: 1-Chlorooctane	91.1 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.2 9	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page 3 of 3

Company Name	Safety & Environmental S		BILL TO	. 4	ANALYSIS REQUES	Ť
Project Manager			P.O. #:	1 1		
Address:	703 East Clinton	= =====================================	Gompany: Same	57		
City:	Hobbs State: NM Z	ip: 88240	Áffn:			
Phone #:	575-397-0510 Fax#: 575-3	393-4388	Address:			
Project #: ALF	-(5-011 Project Owner:	ALANGAOS	City:			
Project Name:	COSTER 16 ST. 5H		State: Zip:			
Project Location	: GDDY COUNTY		Phone #:	5		
Sampler Name:	JOSE JORY		Fax #:	2 2		
FOR LAB USE ONLY	1	MATRIX	PRESERV. SAMPLING	9		
Lab I.D.	Sample I.D.	(G)RAB OR. (C)OMP #*GONTAINERS GROUNDWATER WASTEWATER SOIL OIL		BYEN		
	Alt Surfused 1	911110	1 10 07/02 1055	XXX		
3		9 1 10	X 07/02 (410	11/1/		
3	AH-1 (FT)	K	X 07/02 1420			
4	AH-2 SUMBER	1 2	1 02/02 (120	114/12		
5		il v	05/05 (130	11(15)		
6	AH 2 157.	III K	X 00105 (192	1111		
7	AH-3 surface		X 07/02 1215	11/11		
X	AH-3 147	III X	X 07/02/1230	11511		
9	AH- 4 Surface		07000 1310			
[0]	AH-4 LHT .K	4.		NXN		CAL PROPERTY OF
analyses, All claims including	d Delinity of Cerulina's listality said chiests sociative reintedy for 6thy in those for negligience and any other cause whatsoever shall be de- rating the lister for incidental or consequental demages, including vi g out of or related to the performance of services hereunder by Case	imed waived unless made in writing an	nd received by Cardinal within 30 days after completion of the	ne applicable les	Terms and Conditions; interest will 30 days past due at the rate of 24% p and all costs of collections, including	er annum from the original d

alfiliates or successois arising out of or related to the performan	nce of services hereunder by Ci	ardinal, regardless of whether such claim is based	upon any of the above stated re	asons or otherwise.				
Sambler Relinguished:	Däté: " I	Received By:		Phone Result:	1 Yes	□ No	Add' Phone #:	
	proble	1 11		Fax Result:	☐ Yes	□ No	Add'l Fax #:	
Solv John	Colle	Auder H	was	REMARKS:		4		
Relipquished By:	198 je:///5	Received By:						
	Time: 310	0						
Delivered By: (Circle One)	1 007	Temp. Sample Condition	CHECKED BY:					
Delivered Dy. (Officia Offic)	. 0	Cool Intack	(Noitials)	1				
Sampler - UPS - Bus - Other:	5.60	☐Yes ☐Yes ☐ No ☐ No	CBT.					

454

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Released to Imaging: 12/2/2024 11:51:36 AM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company Name:	Safety & Envir			utio	ne	Inc		整		В	ILL	TO		Nation .				ANA	YSI	RE	QUES	Ť			
roject Manager:		Ullillelitai	001	utio	110,	1110		P	0.#:		-						2			4 13		1			
	703 East Clint	on						Go	mpa	ny:	Sa	me										1			
ddress:	Hobbs	State; NM	Zip:	: 88	240			Ati															1	-	
ity: none #:		Fax#: 575						Ad	dres	s:							135						- 1		
roject#: AL7		Project Owner	· A	170	M	X		Ci	fy:						1		10					- 1			
roject #: VF C	COOTER 16	ST. 5H	. 13	-				1.	ate:		Zip	:		1	1		1					- 1		- 1	
		· pronoc						Ph	one	#;	Ė			80/8		12	1						1	- 1	
roject Location: ampler Name:	5082 Le	30101-1						_	x #:					100		13	3						1		
OR LAB USE ONLY	2081	4.27	1		_	MATE	XIX	-1		SER	V. 5	SAMPL	NG		1	12	2					- 1			
			MP		nc									-	12	17	1					1	1	- 1	
			OR. (C)OMP	ERS	GROUNDWATER									12	10	1	32		1					- 1	
Lab I.D.	Sample 1.	D.	OR.	#CONTAINERS	WA		1	u ::	ACID/BASE:	001				1	0	Z	展					- 1			
ikana			(G)RAB	NO	SOUP	늴	Off.	OTHER:	B/CII	ICE /'CO	E .	DATE	TIME	11		e	准								
H501708	A.1 = = 1		G	#	3	Soll	ō	n O	Ä	× 2	-	DATE	1400	V	1		-	-	-	-					
1/0	Alto Sinks	u	121	1	+	2	+	-	\vdash	V		102	1410	K		1		-	-						
120	44-2 13		9	1	+	N	+	+	\vdash	X	0	7/02	1910				1	1						-	
		-	+	+	-	H	+	+	1	+	+						1		1					LACAULT.	
-			-	\vdash	-	H	1	+		\forall	+						1								
			1		1						1						78.								
											3					1	1								
																	1								
														1		-	1	-	-	-	-	_		_	-
											1.			1			1		one and (onditions'	Interest and	I he charo	e lia no be	מו בווניססס	noie then
EASE HOTE: Liability and	Deinstree, Ceruinar's Baurty and the Bross for negligence and any other	ent's exclusive relinedy for	áirý clái a deleme	ihi ensah ed wahle	whether dupless	based I	in contr writing	and red	elved b	be fmil Cardin	ed to the al within	amount pi	er completion o	for the The applic	able		-	30	days past	due at the	rate of 24%	per annui	n from the	oñginal da	ete of love
rvice. In no event shall Car	priose for negligence and any other dinal be liable for incidental or conse pout of or related to the performance	quental damages, include	ng vilho Cardina	ul fimilal	lon, busin	essinfo hethers	aruption	ns, loss alm is ba	of use,	or loss o	f profits l	ncurred by we stated r	pasons or other	vése.			7 11				io, Honoci	g amounts.			
ampler Reliniqui	ished:	Patrack S	Ri	ečelv	ed By	:		1		3			Fax Res	ult:	O Y		□ No		Phone Fax#:						
m	uny	Timexoo	1/		111	de		1/	11	CID	6		REMARI	KS: ·			101.								
elinguished By	1	Dale:/ / /	R	ecelv	ed B	1./			Or (-						12								
Daniquiono (2)		116115		U		U							1				31								
D. II. 1. D.	(Oirela Orra)	18:36	To	mp.	Sa	mple	Con	difion		CHE	CKED	BY:	-				4								
Delivered By:	(Circle Oue)		1,6	, 0	C	Yes . No	lutae	1	1		pitials		1				160								
Sampler - UPS			*		1	1 Van	M.	Vac	1/	X							300								

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 405801

QUESTIONS

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1614734572
Incident Name	NAB1614734572 COOTER 16 STATE 5H @ 30-015-37875
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-37875] COOTER 16 STATE COM #005H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COOTER 16 STATE 5H
Date Release Discovered	05/19/2016
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Production Tank Produced Water Released: 5 BBL Recovered: 2 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 405801

QUESTIONS	(continued)
-----------	-------------

402011	One (continued)
Operator: RAYBAW Operating, LLC	OGRID: 330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
	of the home of that would requit in injury
The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	
The impacted area has been secured to protect human health and the	True
environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Michael Lee Title: COO Email: michael@raybawoperating.com Date: 11/22/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 405801

QUESTIONS (continued)

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after th release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	2600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	21523	
GRO+DRO (EPA SW-846 Method 8015M)	21523	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	07/25/2020	
On what date will (or did) the final sampling or liner inspection occur	12/15/2024	
On what date will (or was) the remediation complete(d)	12/31/2024	
What is the estimated surface area (in square feet) that will be reclaimed	787	
What is the estimated volume (in cubic yards) that will be reclaimed	58	
What is the estimated surface area (in square feet) that will be remediated	787	
What is the estimated volume (in cubic yards) that will be remediated	58	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 4

Action 405801

QUESTIONS (continued)

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Yes	
LEA LAND LANDFILL [fEEM0112342028]	
Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Michael Lee
Title: COO
Email: michael@raybawoperating.com
Date: 11/22/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 5

Action 405801

QUESTIONS (continued)

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 405801

QUESTIONS (continued)

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	399484
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/24/2020
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	8150

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 405801

CONDITIONS

Operator:	OGRID:
RAYBAW Operating, LLC	330220
2626 Cole Avenue	Action Number:
Dallas, TX 75204	405801
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	12/2/2024
bhall	OCD is requiring three additional sampling points be installed around the edges of the release. The sampling points will need to be installed halfway between proposed horizontal delineation points 5 and 6 on the northern boundary of the release, halfway between proposed horizontal delineation points 7 and 8, and at the western terminal edge of the release area depicted on the Proposed Sampling-Inspection Map.	12/2/2024
bhall	Additional delineation and remediation may be warranted if laboratory analytical results are above applicable closure criteria or if samples collected from the the upper 4 feet is not delineated to the most stringent closure criteria found on Table I of 19.15.29 NMAC.	12/2/2024
bhall	If any of the approved samples will be used as closure/final samples, the C-141N must be submitted at least 2 full business days prior to collecting the samples.	12/2/2024
bhall	Include the times the samples were collected on the chain of custody.	12/2/2024
bhall	Provide GPS locations for the sampling locations.	12/2/2024
bhall	Submit a C-141L at least 2 full business days prior to conducting the liner inspection.	12/2/2024
bhall	Submit a complete and accurate report through the OCD permitting website by 2/7/2025.	12/2/2024