District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-015-37875
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party	Devon Energy Production	OGRID 140544
Contact Name	Wes Matthews	Contact Telephone 575-748-2663
Contact email	Wesley.matthews@dvn.com	Incident # (assigned by OCD) NAB1701352947
Contact mailing address		

#### **Location of Release Source**

Latitude NAD 8

Longitude: W -103.9883423

Latitude: N 32.1236382

Cooter 16 State 5H	Production Battery
Date Release Discovered 1/7/2017	API# (if applicable) 30-015-37875

Unit Letter	Section	Township	Range	County
D	16	25S	29E	Eddy

Surface Owner: X State Federal Tribal Private (Name:

## Nature and Volume of Release

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

<b>x</b> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 28
S Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	8 BBIs of oil and 7bbls of produced water was rel	

Approximately 28 BBIs of oil and 7bbls of produced water was released from the heater treater into the lined containment and onto the pad area. 28 bbls of oil and 2 bbls of produced water released from the heater treater remained inside lined containment, the remaining 5 bbls of produced water traversed the pad area and was absorbed. The liner was inspected for holes and breaches; non were found to be present. A vacuum truck recovered 28 bbls of oil and 2bbls of produced water. An environmental agency was contacted to remediate the site.

Page 2 of 102

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
Yes X No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
NMOCD Mike Bratcher was notified on 1/7/2017 @ 5:00 PM		

## **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

 $\square$  The impacted area has been secured to protect human health and the environment.

 $\square$  Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\square$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Rebecca Pons	Title: Project Manager
Signature:	Date: <u>12/15/20</u>
email:	Telephone:575-441-0980
OCD Only	
Received by:	Date:

Oil Conservation Division

Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-015-37875
Application ID	

# Site Assessment/Characterization

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

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

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

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

- 🗵 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- $\mathbf{x}$  Field data
- $\square$  Data table of soil contaminant concentration data
- $\mathbf{x}$  Depth to water determination
- $\mathbf{x}$  Determination of water sources and significant watercourses within  $\frac{1}{2}$ -mile of the lateral extents of the release
- Boring or excavation logs
- $\square$  Photographs including date and GIS information
- x Topographic/Aerial maps
- $\mathbf{X}$  Laboratory data including chain of custody

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

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Page 3

<b>Received by OCD: 12/21/2020 3:0</b> Form C-141 Page 4	9:18 State of New Mexi Oil Conservation Div		Incident ID District RP Facility ID Application ID	Page 4 of 1 NAB1701352947 2RP-4074 30-015-37875
I hereby certify that the information a regulations all operators are required public health or the environment. The failed to adequately investigate and r addition, OCD acceptance of a C-14 and/or regulations. Printed Name: Wes Mathews	to report and/or file certain rele ne acceptance of a C-141 report emediate contamination that po 1 report does not relieve the ope	ease notifications and perform by the OCD does not relieve t se a threat to groundwater, sur	corrective actions for rele he operator of liability she face water, human health pliance with any other fee	ases which may endanger ould their operations have or the environment. In
Signature: Wes		Date: 12/18/20		
email: wesley.mathews@c		Telephone: 575-		
OCD Only				

**Received by OCD: 12/21/2020 3:09:18 PM** Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

<b><u>Remediation Plan Checklist</u></b> : Each of the following items must b	e included in the plan.	
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
<b>Deferral Requests Only:</b> Each of the following items must be con	nfirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Wes Mathews	Title: EHS Professional	
Signature: Wes Mathews	Date: 12/18/2020	
email: wesley.mathews@dvn.com	Telephone: 575-748-2663	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved	
Signature:	Date:	

Page 5

Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-01-37875
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wes Mathews	Title: EHS Professional					
Signature: <u>Wes Mathews</u>	Date: 12/18/2020					
email: wesley.mathews@dvn.com	Telephone: 575-748-2663					
OCD Only						
Received by:	Date:					
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					



## **Remediation and Closure Report**

Cooter 16 State Com 3H and 5H Eddy County, New Mexico API # 30-015-37875 Incident ID Nab1517443063 2RP-3064, Nab1614734572 2RP-3712, Nab1701352947 2RP-4074

## **Prepared For:**

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

# **Prepared By:**

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

## December 15, 2020

Page | 1

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

Subject: Remediation and Closure Report Cooter 16 State Com 3H and 5H Battery Eddy County, NM API # 30-015-24827 and API # 30-015-37875

Dear Mr. Bratcher,

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

#### Site Information

The Cooter 16 State Com 3H and 5H wells are each produced at the same battery facility that is located approximately 25 miles southeast of Carlsbad, New Mexico. The legal location for the incidents associated with this production facility is Unit Letter D, Section 16, Township 25 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the releases are 32.110725 North and -103.9877 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Potter-Simona complex, 5 to 25 percent slopes. The referenced soil data is attached in Appendix II. The local surface and shallow geology are Holocene to upper Pleistocene in age and is comprised of alluvial deposits. Drainage courses in this area are well drained. The project site is not located in a high Karst potential area (Appendix I).

#### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 60-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

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

Approximate Depth to	Groundwater	60 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing wat any other significant watercourse	ercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or a pl	laya lake
□Yes ⊠No	Within 300 feet from an occupied permanent reschool, hospital, institution or church	esidence,
⊡Yes ⊠No	Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes	
⊡Yes ⊠No	Within 1000 feet of any freshwater well or sprin	g
□Yes ⊠No	Within incorporated municipal boundaries or wi municipal freshwater well field covered under a ordinance adopted pursuant to Section 3-2703	municipal
⊡Yes ⊠No	Within 300 feet of a wetland	
⊡Yes ⊠No	Within the area overlying a subsurface mine	
⊡Yes ⊠No	Within an unstable area	
⊡Yes ⊠No	Within a 100-year floodplain	

As this incident occurred in an area with a depth to groundwater of more than 50feet BGS, the closure criteria for this site is as follows:

Table I Closure Criteria for Soils Impacted by a Release								
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit					
50 ft100 ft	Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg					
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					

#### **Incident Description**

#### Incident number: NAB1517443063

On June 16, 2015, 8 barrels (bbl) of produced water and crude oil mix (7 of which were recovered) were released when the fire tube gasket on the heater treater over pressured and ruptured. Approximately 2 bbl. of fluid were released inside the lined containment and approximately 6 bbl. of fluid were released onto the pad area. An initial C-141 was submitted on June 23, 2015, and is provided in Appendix III. The RP number issued by the NMOCD for this incident is: **2RP-3064.** A work plan was filed and approved for this incident, however the subsequent footprints for the following incidents overlapped, therefore this site was remediated in accordance with the current NMOCD guidelines. **Incident Number: NAB1614734572** 

On May 19, 2016, 5 bbl. of produced water was released from a pinhole leak in the northwest storage tank located at the Cooter 16 State 3H and 5H battery. The release flowed in a southwestern direction with all of the fluid remaining on the pad area. A vacuum truck was dispatched, recovering 2 bbl. of fluid. The approximate area of impact measured 10' x 20' on the southwest side of the pad area. All saturated soil was removed and disposed of at an NMOCD approved disposal facility. The RP number issued by the NMOCD for this incident is: **2RP-3712.** The initial C-141 was submitted on May 26, 2016, and is provided in Appendix III.

#### Incident Number: NAB1701352947

On January 07, 2017, a gasket located on the fire tube of the heater treater was corroded and resulted in a release of approximately 35 bbl. of produced water. All wells producing in this facility were shut in and the heater treater was isolated to prevent further release. Approximately 30 bbl. of fluid remained in the containment, while approximately 2 bbl. of fluid traversed the pad area. No fluid left the pad area. The liner was inspected and no breaches were found. A vacuum truck was utilized and recovered approximately 30 bbl. of fluid. The initial C-141 was approved by the NMOCD on January 12, 2017, and issued incident number **2RP-4074.** The corresponding C-141 can be found in Appendix III.

#### Site Assessment

On July 22, 2020, Talon mobilized personnel to begin site assessment and soil sampling activities. Utilizing a hand auger, composite soil samples were initially collected from the pad area from the spill footprint areas of the Cooter 3H and 5H. All soil samples were properly contained, preserved, and transported to Hall Laboratory, Inc., and analyzed for Chloride (Method EPA 300.0), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Analytical results from our initial sampling events are presented in the following data table. Initial site assessment sampling locations are illustrated in Appendix I, Complete laboratory reports can be found in Appendix V.

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	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

Table 1 : Initial Soil Sample Analysis (Cooter 5H)	
07-24-2020	

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
	. I	at Data ata d							

Table 1: Initial Soil Sample Analysis (Cooter 3H)
07-24-2020

ND = Analyte Not Detected

Based on the results of our site assessment and the approved work plan; remediation activities commenced in August 2020. The spill areas were excavated to approximately 2' bgs. Sidewall and composite bottom soil samples were retrieved in order to verify that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation perimeters can be referenced in Appendix I. Complete laboratory reports are attached in the site map Appendix V.

Table 2: Confirmation Soil Sample Analysis 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)
Closure Criteria		E0 mg/kg	10				2,500	10,000	
19.15.29.12 NMAC		50 mg/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
	Applyto	Not Dotooto	a ni				Doolar		

ND = Analyte Not Detected

NT= Analyte Not Tested BG=Background Sample

Р	а	g	e	6

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				2,500 mg/kg	10,000 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	-	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

Table 3: Confirmation Soil Sample Analysis (Cooter 3H)	)
08-26-2020	

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

#### **Remedial Actions**

- The impacted areas were excavated to a total depth of 2.0-feet BGS.
- Confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. Sidewall excavations continued until closure criteria was met. The results are shown on Table 2 and Table 3 the corresponding lab reports may be found in Appendix V.
- All the excavated material was hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with clean caliche to grade, machine compacted and contoured to match the surrounding location as can be seen in photo documentation Appendix IV.
- The Final C-141's formally documenting the remedial actions is attached in Appendix III.

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#### Closure

Based on the site assessments, remedial actions and confirmation sampling results completed for this project, on behalf of Devon Energy we request that no further actions be required, and that closure of the incidents be granted.

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

Respectfully submitted,

TALON/LPE

Rebecca Pons Project Manager

Attachments:

Appendix ISite MapsAppendix IISoil Survey, Groundwater DataAppendix IIIInitial and Final C-141Appendix IVPhotographic DocumentationAppendix VLaboratory Data



# **APPENDIX I**

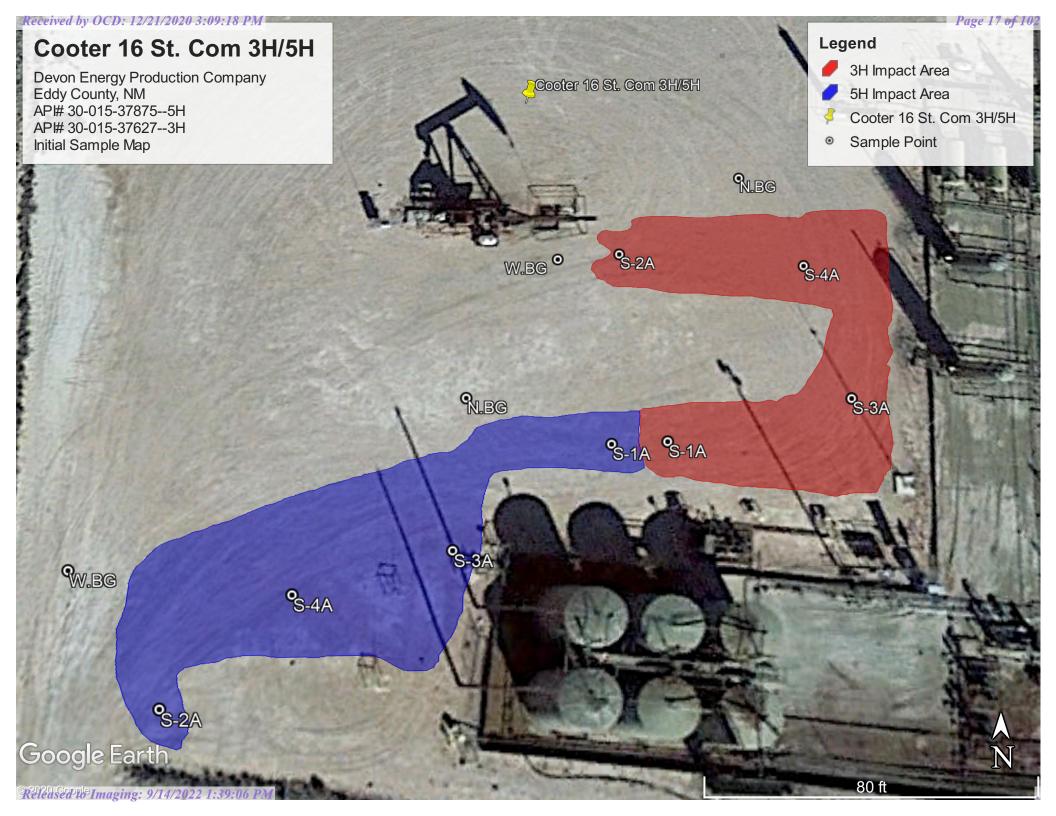
# SITE MAPS

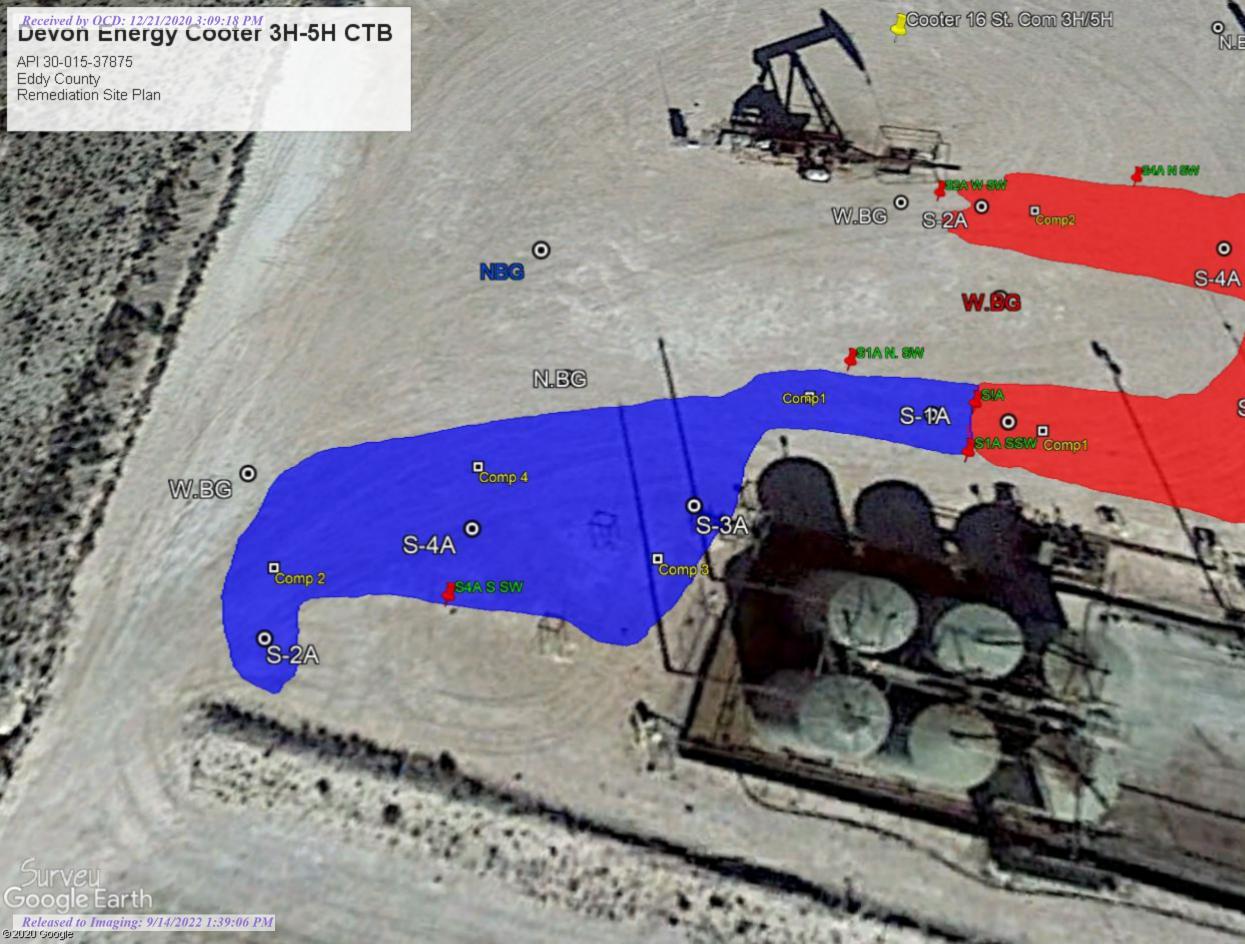
**Released to Imaging: 9/14/2022 1:39:06 PM** 

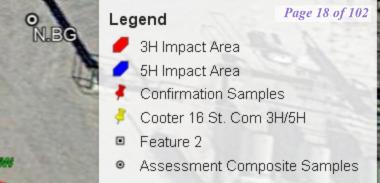


# oogle earth

Tank 15







S-3A Comp3

Comp4



# APPENDIX II

# SOIL SURVEY, GROUNDWATER DATA

# 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: Hills, ridges Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Crest, nose slope, side slope, head slope 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 capacity: 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: R042XC025NM - Shallow Hydric soil rating: No

#### **Description of Simona**

#### Setting

Landform: Alluvial fans, plains Landform position (three-dimensional): Rise Down-slope shape: Linear, convex 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 capacity: 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: R042XC002NM - Shallow Sandy Hydric soil rating: No

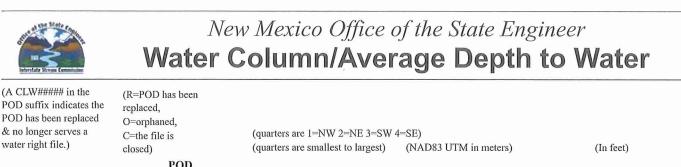
#### **Minor Components**

#### Simona

Percent of map unit: 3 percent Ecological site: R042XC002NM - Shallow Sandy Hydric soil rating: No

#### Rock outcrop

Percent of map unit: 2 percent Hydric soil rating: No Page 22 of 102



		POD													
		Sub-		QQ	Q									Wa	ater
POD Number	Code	basin	County	64 16	4	Sec	Tws	Rng	Х	1	Y	DistanceDepth	WellDepth	Water Col	umn
<u>C 02371</u>		С	ED	2	3	15	25S	29E	596741	3555106	* 🌍	1409	200	60	140
<u>C 02680</u>		CUB	ED	2	3	15	25S	29E	596741	3555106	* 🌍	1409	200		
<u>C 02518</u>		С	ED	3	4	08	25S	29E	593895	3556300	* 🌍	2299	462		
											Averag	ge Depth to Water:		60 feet	
												Minimum Depth	:	60 feet	
												Maximum Depth:		60 feet	
Record Count: 3										an tachadan					
<b>Basin/County Sear</b>	ch:														
County: Eddy															
UTMNAD83 Radiu	is Search (in	meters	) <u>:</u>												
Easting (X): 59	5430.2		Northi	ng (Y)	:	3554	588.21			Radius:	3000				
*UTM location was derived	l from PLSS ·	- see Help	1												
The data is furnished by the	NMOSE/ISC	and is as	conted by the	raaini	t.		la aver	occod w	adorstanding t	hat the OCE	/ICC mg	ke no momentico em	round or imp	liad approximi	no the

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.

7/20/20 3:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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# New Mexico Office of the State Engineer Point of Diversion Summary

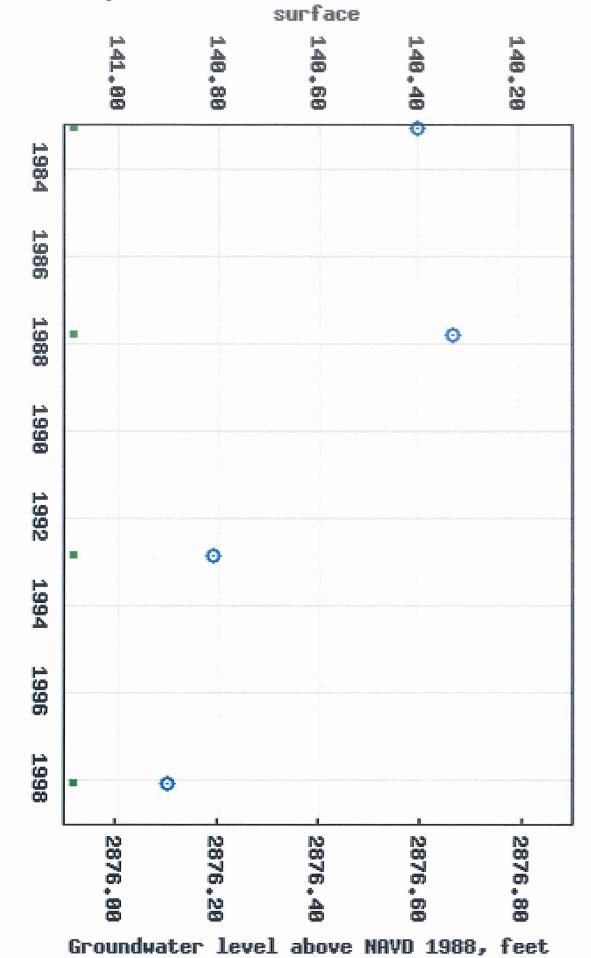
			(quarters) (quarters)					(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	X	Ŷ	
	C 02	2371	2	3	15	25S	29E	596741	3555106* 🌍	
Driller Lice	ense:	1259	Driller C	ompa	ny:	СА	MPBEL	L DRILLI	١G	
Driller Nar	ne:	CAMPBELL, MI	CHAEL R.							
Drill Start	Date:	01/12/1995	Drill Fini	sh Da	te:	0	1/24/199	95 PI	ug Date:	
Log File Da	ate:	02/01/1995	PCW Rev	v Date	e:			So	urce:	Shallow
Ритр Туре	:		Pipe Disc	harge	Size	:		Es	timated Yield:	20 GPM
Casing Size	e:	7.00	Depth W	ell:		2	00 feet	De	epth Water:	60 feet
X	Wate	r Bearing Stratifi	cations:	Te	p E	Bottom	Descr	iption		
				10	62	200	Sands	tone/Grave	/Conglomerate	
/		Casing Perfe	orations:	Та	p E	Bottom	c			
				14	10	200	1			

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

7/20/20 3:10 PM

POINT OF DIVERSION SUMMARY



Depth to water level, feet below land

USGS 320739103584201 255.29E.15.31134

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Period of approved data

Released to Imaging: 9/14/2022 1:39:06 PM



# APPENDIX III

# C-141 Forms

Received by OCD: 12/21/2020 3:09:18 PM				Page 26 of .
District II Energy Minerals	New Mexico and Natural Resources		R	Form C-14 evised August 8, 201
11 S. First St., Artesia, NM 88210 <u>vistrict III</u> 000 Rio Brazos Road, Aztec, NM 87410 <u>vistrict IV</u> 1220 South	rvation Division h St. Francis Dr. e, NM 87505	Submit 1 Copy to appropriate District Office i accordance with 19.15.29 NMAC		
Release Notificatio	n and Corrective A	ction		
NAB 1517443063 Name of Company Devon Energy Production 4137	OPERATOR Contact Dan Suniga	🛛 Initi	al Report	Final Rep
Address 6488 Seven Rivers Hwy Artesia, NM 88220 Facility Name Cooter 16 State Com 5H	<b>Telephone No.</b> 575.390.58 Facility Type Oil	50		
Surface Owner State Mineral Owner	r State	API N	o. 30-015-3	37627
ΙΟCΑΤΙΟ	N OF RELEASE	•		
	h/South Line FNL Feet from the 1190	East/West Line FWL	County Eddy	
Latitude: <u>32.11072</u>	2.5 Longitude: <u>103.9877</u>	7		
NATURE	C OF RELEASE			
Type of Release Spill Mixture of produced water & oil	Volume of Release 8 BBL	Volume 7 BBL	Recovered	
Source of Release A fire tube gasket on heater treater blown out.	Date and Hour of Occurre 6/16/15 at 10:35 am		l Hour of Di 10:35 am	scovery
Was Immediate Notice Given?			NM OIL	CONSERVAT
	Mike Bratcher OCD			
By Whom? Leonard Aguilar	Date and Hour		ART. 	ESIA DISTRICT
Was a Watercourse Reached?			e	ESIA DISTRICT V 22 2015 CEIVED
Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* On 6/16/15 at the Cooter 16-5 Battery at 10:35 am A fire tube gasket opened the drain to the water tank, and shut in the cottontail 16-1. Describe Area Affected and Cleanup Action Taken.* Lease operator inspected the heater treater and found that the gasket long had blown out causing the release of oil and water. The spill wa BBL was in lined containment and 2 BBL recovered, no holes in line	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         et around the fire tube (upper us limited to about 8bbl total 4 ad containment. 6 BBL was sp	g the Watercourse Devon employee s left corner) of the BBL of oil and 4	e RE shut supply t e gasket app BBL of proc	<b>CEIVED</b> to the heater and roximately 10'' luced water. 2
By Whom? Leonard Aguilar         Was a Watercourse Reached?         □ Yes ⊠ No         If a Watercourse was Impacted, Describe Fully.*         Describe Cause of Problem and Remedial Action Taken.*         On 6/16/15 at the Cooter 16-5 Battery at 10:35 am A fire tube gasket opened the drain to the water tank, and shut in the cottontail 16-1.         Describe Area Affected and Cleanup Action Taken.*         Lease operator inspected the heater treater and found that the gasket long had blown out causing the release of oil and water. The spill was BBL was in lined containment and 2 BBL recovered, no holes in line recovered. An environmental company will be called out to evaluate         I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sp area.         the best of my knowledge and to notifications and perform corre he NMOCD marked as "Final Fate contamination that pose a th does not relieve the operator of	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 understand that pur clive actions for re Report" does not re reat to ground wate responsibility for o	e RE shut supply f e gasket app BBL of proo X 20 area an rsuant to NM leases which lieve the ope er, surface wa compliance v	<b>CEIVED</b> To the heater and roximately 10'' luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability iter, human health with any other
Was a Watercourse Reached?       ☐ Yes ⊠ No         If a Watercourse was Impacted, Describe Fully.*         Describe Cause of Problem and Remedial Action Taken.*         On 6/16/15 at the Cooter 16-5 Battery at 10:35 am A fire tube gasket opened the drain to the water tank, and shut in the cottontail 16-1.         Describe Area Affected and Cleanup Action Taken.*         Lease operator inspected the heater treater and found that the gasket long had blown out causing the release of oil and water. The spill wa BBL was in lined containment and 2 BBL recovered, no holes in line recovered. An environmental company will be called out to evaluate         I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sp area.         the best of my knowledge and to notifications and perform corre he NMOCD marked as "Final Fate contamination that pose a th does not relieve the operator of	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 understand that put ctive actions for re Report" does not re reat to ground wate	e RE shut supply f e gasket app BBL of proo X 20 area an rsuant to NM leases which lieve the ope er, surface wa compliance v	<b>CEIVED</b> To the heater and roximately 10'' luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability iter, human health vith any other
Was a Watercourse Reached?	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sp area.         the best of my knowledge and to notifications and perform corre he NMOCD marked as "Final Fate contamination that pose a th does not relieve the operator of	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 inderstand that put ctive actions for re Report" does not re rest to ground water responsibility for our SERVATION	e RE shut supply f e gasket app BBL of proo X 20 area an rsuant to NM leases which lieve the ope er, surface wa compliance v	<b>CEIVED</b> To the heater and roximately 10'' luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability iter, human health vith any other
Was a Watercourse Reached?         Yes       No         If a Watercourse was Impacted, Describe Fully.*         Describe Cause of Problem and Remedial Action Taken.*         On 6/16/15 at the Cooter 16-5 Battery at 10:35 am A fire tube gasket opened the drain to the water tank, and shut in the cottontail 16-1.         Describe Area Affected and Cleanup Action Taken.*         Lease operator inspected the heater treater and found that the gasket long had blown out causing the release of oil and water. The spill wa BBL was in lined containment and 2 BBL recovered, no holes in line recovered. An environmental company will be called out to evaluate         I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.         Signature:       Jeanette Barron	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sparea.         the best of my knowledge and to notifications and perform corre he NMOCD marked as "Final Fate contamination that pose a th does not relieve the operator of OIL CON	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 inderstand that put ctive actions for re Report" does not re rest to ground water responsibility for our SERVATION	e gasket app BBL of proc X 20 area an rsuant to NM leases which lieve the ope er, surface wa compliance v	<b>CEIVED</b> To the heater and roximately 10'' luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability iter, human health vith any other
Was a Watercourse Reached?	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sparea.         the best of my knowledge and provide the operator of the NMOCD marked as "Final Fate contamination that pose a the does not relieve the operator of OIL CON         Approved by Environmental S         Approval Date:       23	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 understand that punctive actions for re Report" does not re reat to ground wate responsibility for of SERVATION Specialist:	e RE shut supply f e gasket app BBL of proc X 20 area an rsuant to NM leases which lieve the ope er, surface wa compliance v V DIVISIC A Date: N	CEIVED to the heater and roximately 10" luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability ater, human health with any other
Was a Watercourse Reached?	Date and Hour         6/17/15 at 10:00 am         If YES, Volume Impacting         at on heater treater blown out.         at on heater treater blown out.         et around the fire tube (upper is limited to about 8bbl total 4 ed containment. 6 BBL was sparea.         the best of my knowledge and the notifications and perform corres he NMOCD marked as "Final Fate contamination that pose a the does not relieve the operator of OIL CON         Approved by Environmental S         Approval Date:       4234	g the Watercourse Devon employee s left corner) of the BBL of oil and 4 illed on pad a 10 2 understand that pur ctive actions for re Report" does not re reat to ground wate responsibility for SERVATION Specialist Expiration Rules & Guide PROPOSAL N	e RE shut supply the e gasket apping BBL of proof X 20 area and rsuant to NM leases which lieve the ope er, surface was compliance v N DIVISION a Date: N Attached SO	CEIVED to the heater and roximately 10" luced water. 2 d 5 BBL was OCD rules and may endanger rator of liability ater, human health with any other

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

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Incident ID	NAB1517443063
District RP	2RP-3064
Facility ID	30-015-37627
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party	Devon Energy Production	OGRID 140544
Contact Name	Wes Matthews	Contact Telephone 575-748-2663
Contact email	Wesley.matthews@dvn.com	Incident # (assigned by OCD) NAB1517443063
Contact mailing ad	dress	

# **Location of Release Source**

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.9877

Latitude 32.110725

Site Name	Cooter 16 State 5H	Site Type Production Battery
Date Release I	Discovered 6/16/15	API# ( <i>if applicable</i> ) 30-015-37627

Unit Letter	Section	Township	Range	County
D	16	25S	29E	Eddy

Surface Owner: X State Federal Tribal Private (Name: \_

## Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
S Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 7
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release A f	ire tube gasket on the heater treater	blew out. Devon personnel
, a	t in supply to the heater treater and nd shut in the cottontail 16-1. compromised gasket blew out causing th	

Page 28 of 102

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🗵 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

# **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

 $\square$  The impacted area has been secured to protect human health and the environment.

 $\square$  Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\square$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Rebecca Pons	Title: Project Manager
Signature:	Date: <u>12/15/20</u>
email:	Telephone:575-441-0980
OCD Only	
Received by:	Date:

Page 3

Oil Conservation Division

	Page 29	of 102
1 - 1 - 7	112062	

Incident IDNAB1517443063District RP2RP-3064Facility ID30-015-37627Application ID30-015-37627

# Site Assessment/Characterization

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

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

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

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

- 🕱 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- $\mathbf{x}$  Field data
- $\square$  Data table of soil contaminant concentration data
- $\mathbf{x}$  Depth to water determination
- I Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- $\square$  Photographs including date and GIS information
- x Topographic/Aerial maps
- $\mathbf{X}$  Laboratory data including chain of custody

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

Received by OCD: 12/21/2020 3:09:18 PM Form C-141 State of New Mexico			Page 30 of	
			Incident ID	NAB1517443063
Page 4	Oil Conservation Divi	sion	District RP	2RP-3064
			Facility ID	30-015-37627
			Application ID	
public health or the environment. The failed to adequately investigate and re addition, OCD acceptance of a C-141 and/or regulations.	emediate contamination that pos report does not relieve the oper	e a threat to groundwater, sur rator of responsibility for com	face water, human health pliance with any other fe	or the environment. In
Printed Name: Wes Mathews		Title: EHS Profe		
Signature: Wes T	Mathews	Date: 12/18/202	20	
email: wesley.mathews@d	lvn.com	Telephone: 575-7	748-2663	
OCD Only				

Received by OCD: 12/21/2020 3:09:18 PM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

]	Incident ID	NAB1517443063
]	District RP	2RP-3064
]	Facility ID	30-015-37627
	Application ID	

# **Remediation Plan**

Detailed description of proposed remediation technique Х Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: EHS Professional Printed Name: Wes Mathews Signature: Wes Mathews Date: 12/18/2020 <sub>email:</sub> wesley.mathews@dvn.com Telephone: 575-748-2663 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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**Oil Conservation Division** 

Incident ID	NAB1517443063
District RP	2RP-3064
Facility ID	30-015-37627
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.  $[\mathbf{X}]$  A scaled site and sampling diagram as described in 19.15.29.11 NMAC E Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Wes Mathews Title: EHS Professional Signature: \_\_\_\_\_ Wes Mathews \_\_\_\_\_ Date: 12/18/2020 Telephone: 575-748-2663

email wesley.mathews@dvn.com

Page 6

**OCD Only** 

Received by:

Date:

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

Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 12/21/2020 3:09:18 PM			NM		ONSER	VATION	Page 33 of 102
District I 1625 N. French Dr., Hobbs, NM 88240 District II	State of Energy Minerals	New Mexi and Natural			2.4 20	116	Form C-141 sed August 8, 2011
811 S. First St., Artesia, NM 88210 District III	Oil Conser	vation Div	ision	Subr	nit 1 Copy	to appropriate	District Office in
1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South			RE	CEIVE	ordance with	19.15.29 NMAC.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe	, NM 875	05				
	se Notification	and Co	rrective A	ction			
NAB1414734572	4	OPERAT	OR	[	🛛 Initia	al Report	Final Report
Name of Company Devon Energy Production	n Company <b>(1/37</b> )		onard Aguilar, A				
Address 6488 Seven Rivers Hwy Artesia, NM Facility Name Cooter 16 State 5H		Telephone I Facility Typ	No. 575.513.193	30			
•		· · · ·					
Surface Owner State	Mineral Owner	State			API No	30-015-378	75
	LOCATION	N OF REI	EASE				
Unit LetterSectionTownshipRangeIN1625S29S		South Line FNL	Feet from the 2310		est Line EL	County Eddy	
Latitude	e: 32.1236382	Lon	gitude: ~103.9	883423		1	
	NATURE	OF RELI	EASE				
Type of Release Produced Water		Volume of 5BBLS	Release		Volume l 2BBLS	Recovered	50.00500
Source of Release			lour of Occurre			Hour of Disco	very
Pinhole leak on steel pipe.		5/19/2016@		1.5.17	5/19/2016	6@7:00am	
Was Immediate Notice Given?	No 🔲 Not Required	OCD-Mike					
By Whom?		Date and I	lour				
Leonard Aguilar, Assistant Production Foreman			2016 @ 7:00am	41 117 4		- '**	
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse N/A					
If a Watercourse was Impacted, Describe Fully.*							
<b>Describe Cause of Problem and Remedial Actio</b> 5 BBLS of produced water was released. The released isolate the leak. A repair clamp was installed.		l pipe on the i	nlet water line. T	The valve	e was shut	off to prevent f	urther release
Describe Area Affected and Cleanup Action Taken.* 5BBLS of produced water was released from a pinhole leak in the Northwest storage tank. The release flowed in a Southwestern direction with all fluid remaining on location. 2 BBLS of produced water was recovered via vacuum truck. The approximate size of the area affected was a 10ft by 20ft on the Southwest side of location between the entrance and the storage tanks. An environmental company will be contacted for remediation.							
I hereby certify that the information given above is regulations all operators are required to report and/ public health or the environment. The acceptance should their operations have failed to adequately in or the environment. In addition, NMOCD acceptant federal, state, or local laws and/or regulations.	or file certain release no of a C-141 report by the ivestigate and remediate	otifications ar c NMOCD ma c contamination	d perform correc arked as "Final Roon that pose a three	tive action eport" do eat to gro	ons for rel bes not rel bund wate	eases which ma ieve the operator, surface water	ny endanger or of liability , human health
Signature: Dana DeLaRosa					11	DIVISION	<u> </u>
Printed Name: Dana DeLaRosa		Approved by	<b>Signed E</b> Environmental S	By pecialist:	1/4 /	) renovering the	
Title: Production: Field Admin Support		Approval Dat	<u>:: 5 24 11</u>	Lø e	Expiration	Date: NIA	
E-mail Address: dana.delarosa@dvn.com		Conditions of Romediatio	Approval: n per O.C.D.	Rules	& Guide	linesached [	ן כ
Date: 5/23/2016 Phone: 575.746.5	5594	SUBMIT RE	MEDIATION	PROPO	OSAL N	0	~ <u>~</u>
* Attach Additional Sheets If Necessary		ATER TH	N://///	und	<u> </u>	dr	XP-3712

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAB1614734572
District RP	2RP-3712
Facility ID	30-015-37875
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party	Devon Energy Production	OGRID 140544
Contact Name	Wes Matthews	Contact Telephone 575-748-2663
Contact email	Wesley.matthews@dvn.com	Incident # (assigned by OCD) NAB1614734572
Contact mailing ac	dress	

#### Location of Release Source

Latitude 32.1236382

Site Name	Cooter 16 State 5H	Site Type Production Battery
Date Release	Discovered 05/19/2016	API# (if applicable) 30-015-37875

Unit Letter	Section	Township	Range	County	
Ν	16	25S	298	Eddy	

Surface Owner: X State Federal Tribal Private (Name: \_\_\_\_\_

#### Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Reproduced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
si a	he release was caused by a pinhole leak on a sten nut off to prevent further release and isolate the le southwester direction with all fluid remaining on th oproximately 2bbls of fluid.	ak. A repair clamp was installed. The fluid flowed in

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
19.19.29.7(11) 100010.	
Yes X No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

 $\square$  The impacted area has been secured to protect human health and the environment.

 $\square$  Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\square$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Rebecca Pons	Title: Project Manager
Signature:	Date: <u>12/15/20</u>
email:	Telephone:575-441-0980
OCD Only	
Received by:	Date:

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Oil Conservation Division

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Incident ID	NAB1614734572	
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Application ID		

# Site Assessment/Characterization

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

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

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

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

- 🗵 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- $\mathbf{x}$  Field data
- $\square$  Data table of soil contaminant concentration data
- $\mathbf{x}$  Depth to water determination
- $\mathbf{x}$  Determination of water sources and significant watercourses within  $\frac{1}{2}$ -mile of the lateral extents of the release
- Boring or excavation logs
- $\square$  Photographs including date and GIS information
- x Topographic/Aerial maps
- $\mathbf{X}$  Laboratory data including chain of custody

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

Received by OCD: 12/2	precived by OCD: 12/21/2020 3:09:18 PM State of New Mexico		Page 37 of 102		
			Incident ID	NAB1614734572	
Page 4	Oil Conservation Div	1510n	District RP	2RP-3712	
			Facility ID	30-015-37875	
			Application ID		
regulations all operators public health or the envi failed to adequately inve addition, OCD acceptant and/or regulations. Printed Name: Signature:	nformation given above is true and complet are required to report and/or file certain rele ronment. The acceptance of a C-141 report stigate and remediate contamination that po be of a C-141 report does not relieve the ope wes Mathews Wes Mathews hews@dvn.com	ease notifications and perform c by the OCD does not relieve th se a threat to groundwater, surfa- erator of responsibility for comp 	orrective actions for rele e operator of liability sh- ace water, human health liance with any other fe ofessional	eases which may endanger ould their operations have or the environment. In	
OCD Only Received by:		Date:			

Received by OCD: 12/21/2020 3:09:18 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	NAB1614734572
District RP	2RP-3712
Facility ID	30-015-37875
Application ID	

## **Remediation Plan**

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Х Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: EHS Professional Printed Name: Wes Mathews Signature: Wes Mathews Date: 12/18/2020 <sub>email:</sub> wesley.mathews@dvn.com Telephone: 575-748-2663 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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Page 6

Oil Conservation Division

Incident ID	PCD3836956794
District RP	4TR/5934
Facility ID	52/237/59:97
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

 Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

 Image: The second state and sampling diagram as described in 19.15.29.11 NMAC

A searce site and sampling diagram as described in 17.13.27.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

🖾 Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wes Mathews	Title: EHS Professional
Signature: Wes Mathews	Date: 12/18/2020
email: wesley.mathews@dvn.com	Telephone: 575-748-2663
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 12/21/2020 3:09:18 PM					<b>Page 40 of 1</b> (
District I	Stata a	f Now Mor	N	IM OIL CONS	
1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources			ARTESIA D	Pavised Avaust 9, 2011
311 S. First St., Artesia, NM 88210				JAN 1 1	. 2017
District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Division			Submit 1 Cop	by to appropriate District Office in accordance with 19.15.29 NMAC.
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		th St. Franc		RECEN	
		Fe, NM 875			
Release N	Notificatio	on and Co	orrective A	ction	
NAB1701352947		<b>OPERA</b>	ГOR	🖂 Init	ial Report 🔲 Final Report
Name of Company Devon Energy Production Con	npany 6/37	Contact M	att Nettles, Prod		
Address 6488 Seven Rivers Hwy Artesia, NM 882	210		No. 575-513-57	67	
Facility Name Cooter 16 State Com 5H		Facility Ty	<b>pe</b> Oil		
Surface Owner State N	1ineral Owne	r State		API N	lo 30-015-37875
	LOCATIO	N OF DE	FASE		
		th/South Line	Feet from the	East/West Line	County
F6	30	South	2310	East	Eddy
Latitude: N 32.123	6382		Longitude: W	-103 9883423	
		E OF REL	0		
Type of Release Oil & Produced water	MATUR	Volume of	f Release 28 BBL		Recovered 28 BBLS Oil
Source of Release	-	& 7 BBLS Date and	Hour of Occurre	A 2 BBI	d Hour of Discovery
Heater treater			@ 11:30am		7 @ 11:30am
	I TE VICC T	A Million 2			
Was Immediate Notice Given?	Not Require	d OCD-Mik			
Was Immediate Notice Given?		d OCD-Mik	e Bratcher	5:00pm	
Was Immediate Notice Given?		d OCD-Mike			e
Was Immediate Notice Given?       Xes       No         By Whom? Leonard Aguilar, Assistant Production Fore:         Was a Watercourse Reached?       Yes       No         If a Watercourse was Impacted, Describe Fully.*		d OCD-Mike Date and If YES, V	e Bratcher Hour 1/7/2017 @		e
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-015-37875
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party	Devon Energy Production	OGRID 140544	
Contact Name	Wes Matthews	Contact Telephone 575-748-2663	
Contact email	Wesley.matthews@dvn.com	Incident # (assigned by OCD) NAB1701352947	
Contact mailing address			

#### **Location of Release Source**

Latitude NAD 8

Longitude: W -103.9883423

Latitude: N 32.1236382

Cooter 16 State 5H	Production Battery
Date Release Discovered 1/7/2017	API# (if applicable) 30-015-37875

Unit Letter	Section	Township	Range	County
D	16	25S	29E	Eddy

Surface Owner: X State Federal Tribal Private (Name:

### Nature and Volume of Release

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

<b>x</b> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 28
S Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	8 BBIs of oil and 7bbls of produced water was rel	

Approximately 28 BBIs of oil and 7bbls of produced water was released from the heater treater into the lined containment and onto the pad area. 28 bbls of oil and 2 bbls of produced water released from the heater treater remained inside lined containment, the remaining 5 bbls of produced water traversed the pad area and was absorbed. The liner was inspected for holes and breaches; non were found to be present. A vacuum truck recovered 28 bbls of oil and 2bbls of produced water. An environmental agency was contacted to remediate the site.

Page 42 of 102

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
NMOCD Mike	e Bratcher was notified on 1/7/2017 @ 5:00 PM

### **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

 $\square$  The impacted area has been secured to protect human health and the environment.

🕱 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\square$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Rebecca Pons	Title: Project Manager
Signature:	Date: <u>12/15/20</u>
email:	Telephone:575-441-0980
OCD Only	
Received by:	Date:

Oil Conservation Division

Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-015-37875
Application ID	

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### Site Assessment/Characterization

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

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

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

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

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

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

Received by OCD: 12/	21/2020 3:09:18 PM State of New Mex	vico		Page 44 of 1
Page 4	Oil Conservation Di		Incident ID District RP Facility ID Application ID	NAB1701352947 2RP-4074 30-015-37875
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Printed Name: Wes		<sub>Title:</sub> EHS Profe	ssional	
Signature:	Wes Mathews	Date: <u>12/18/202</u>	20	
email: wesley.ma	thews@dvn.com	Telephone: 575-7		
OCD Only				
Received by:		Date:		

Received by OCD: 12/21/2020 3:09:18 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

<b><u>Remediation Plan Checklist</u></b> : Each of the following items must b	e included in the plan.
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation point</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>Proposed schedule for remediation (note if remediation plan times)</li> </ul>	12(C)(4) NMAC
<b>Deferral Requests Only:</b> Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Wes Mathews	Title: EHS Professional
Signature: Wes Mathews	Date: 12/18/2020
email: wesley.mathews@dvn.com	Telephone: 575-748-2663
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

Incident ID	NAB1701352947
District RP	2RP-4074
Facility ID	30-01-37875
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

 Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

 ▼ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

 ▼ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

 ▼ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 ▼ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wes Mathews	Title: EHS Professional				
Signature: Wes Mathews	Date: 12/18/2020				
email: wesley.mathews@dvn.com	Telephone: 575-748-2663				
OCD Only					
Received by: OCD	Date: <u>12/21/2020</u>				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: <u>Ashley Maywell</u> Printed Name: Ashley Maxwell	Date:9/14/2022				
Printed Name: Ashley Maxwell	Title: Environmental Specialist				



# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

# Received by OCD: 12/21/2020 3:09:18 PM Energy Cooter 16 State Com, 5H Eddy County Site Photos



06-23-15 Signage of Location



06-23-15 Spill area East side of pad



06-23-15 Spill run looking SW



06-23-15 Spill Run Looking East



06-23-15 Western Extent of Spill Run



06-23-15 Spill Run West side of Battery

### Devon Energy Cooter 3&5H CTB Remediation PHOTO DOCUMENTATION



South Side 5H



Near Well Head 3H



Backfilled to Grade

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# APPENDIX V

# LABORATORY DATA

**Released to Imaging: 9/14/2022 1:39:06 PM** 



July 30, 2020

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

RE: Devon Cooter 16ST5H

OrderNo.: 2007C45

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Devon Cooter 16ST5H

2007C45-001

Project:

Lab ID:

Analytical Report
Lab Order 2007C45

Date Reported: 7/30/2020

Client Sample ID: #5 Devon Cooter Comp 1 Collection Date: 7/22/2020 10:00:00 AM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	730	60	mg/Kg	20	7/28/2020 6:36:04 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analys	t: 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					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 10:24:45 PM	1 53942
Surr: BFB	92.8	66.6-105	%Rec	1	7/25/2020 10:24:45 PM	1 53942
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/25/2020 10:24:45 PM	1 53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 10:24:45 PM	1 53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 10:24:45 PM	1 53942
Xylenes, Total	ND	0.097	mg/Kg	1	7/25/2020 10:24:45 PM	1 53942
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/25/2020 10:24:45 PM	1 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 1 of 8

Devon Cooter 16ST5H

Project:

Analytical Report Lab Order 2007C45

Date Reported: 7/30/2020

Client Sample ID: #5 Devon Cooter Comp 2 Collection Date: 7/22/2020 10:15:00 AM Received Date: 7/24/2020 9:50:00 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	ORGANICS				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 RANG	E				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

**Analytical Report** Lab Order 2007C45

Date Reported: 7/30/2020 Client Sample ID: #5 Devon Cooter Comp 3

Project:	Devon Cooter 16ST5H		(	Collection Dat	<b>e:</b> 7/2	22/2020 10:30:00 AM						
Lab ID:	2007C45-003	Matrix: SOIL		<b>Received Dat</b>	te: 7/24/2020 9:50:00 AM							
Analyse	S	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT					
Chloride	9	ND	60	mg/Kg	20	7/28/2020 7:25:28 PM	54013					
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	BRM					
Diesel F	Range Organics (DRO)	ND	10	mg/Kg	1	7/28/2020 3:06:37 PM	53977					
Motor C	il 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 ME	THOD 8015D: GASOLINE RAM	IGE				Analyst	: NSB					
Gasolin	e 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 ME	THOD 8021B: VOLATILES					Analyst	: NSB					
Benzen	e	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					
Ethylbe	nzene	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					

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

**Qualifiers:** 

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

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

Page 3 of 8

Devon Cooter 16ST5H

2007C45-004

Project:

Lab ID:

Analytical Report
Lab Order 2007C45

Date Reported: 7/30/2020

Client Sample ID: #5 Devon Cooter Comp 4 Collection Date: 7/22/2020 10:45:00 AM Received Date: 7/24/2020 9:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	150	60	mg/Kg	20	7/28/2020 7:37:48 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: 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					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2020 11:35:08 PM	1 53942
Surr: BFB	91.3	66.6-105	%Rec	1	7/25/2020 11:35:08 PM	1 53942
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	7/25/2020 11:35:08 PM	1 53942
Toluene	ND	0.049	mg/Kg	1	7/25/2020 11:35:08 PM	1 53942
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2020 11:35:08 PM	1 53942
Xylenes, Total	ND	0.098	mg/Kg	1	7/25/2020 11:35:08 PM	1 53942
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/25/2020 11:35:08 PM	1 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 4 of 8

Client: Project:		n Artesia on Cooter 16ST	'5H								
Sample ID:	MB-54013	SampT	ype: <b>ml</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 54	013	F	RunNo: 70	0680				
Prep Date:	7/28/2020	Analysis D	ate: 7/	28/2020	S	SeqNo: 24	459573	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-54013	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 54	013	F	RunNo: 70	0680				
Prep Date:	7/28/2020	Analysis D	ate: 7/	28/2020	5	SeqNo: 24	459574	Units: <b>mg/K</b>	g		
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

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2007C45

30-Jul-20

WO#:

#### **Released to Imaging: 9/14/2022 1:39:06 PM**

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Artesia n Cooter 16S7	Г5Н									
Sample ID: LCS-53977	SampT	ype: LC	De: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batc	h ID: 53	977	R	RunNo: 70	0650					
Prep Date: 7/27/2020	Analysis E	Date: 7/	28/2020	S	eqNo: 24	458651	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130				
Surr: DNOP	6.1		5.000		122	30.4	154				
Sample ID: MB-53977	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batc	h ID: 53	977	RunNo: 70650							
Prep Date: <b>7/27/2020</b>	Analysis [	Date: 7/	28/2020	SeqNo: 2458652			Units: mg/K	íg			
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

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2007C45

30-Jul-20

WO#:

# QC SUMMARY REPORT Hall E

	WO#:	2007C45
Environmental Analysis Laboratory, Inc.		30-Jul-20

Client: Talon A				
Project: Devon (	Cooter 16ST5H			
Sample ID: mb-53942	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
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 Rang	e
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)	22 5.0 25.00	0 87.1 72.5	106	
Surr: BFB	1000 1000	100 66.6	105	
Sample ID: mb-53947	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
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 Rang	e
Client ID: LCSS	Batch ID: 53947	RunNo: 70616	-	
Prep Date: <b>7/24/2020</b>	Analysis Date: 7/26/2020	SeqNo: 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 7 of 8

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

Analysis Date: 7/26/2020

PQL

Result

1.0

Client:		Artesia									
Project:		Cooter 16ST	эн								
Sample ID:	mb-53942	SampT	ype: ME	BLK	Test	tCode: EF	les				
Client ID:	PBS	Batch	n ID: <b>53</b> 9	942	R	RunNo: 70	0616				
Prep Date:	7/24/2020	Analysis D	ate: 7/	25/2020	S	SeqNo: 24	456665	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.0		1.000		102	80	120			
Sample ID:	LCS-53942	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 53	942	F	RunNo: 70	0616				
Prep Date:	7/24/2020	Analysis D	Analysis Date: 7/25/2020			SeqNo: 24	456666	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-Brom	nofluorobenzene	1.0		1.000		104	80	120			
Sample ID:	mb-53947	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	n ID: 53	947	F	RunNo: 70	0616				
Prep Date:	7/24/2020	Analysis D	ate: 7/	26/2020	S	SeqNo: 24	456689	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.0		1.000		101	80	120			
Sample ID:	LCS-53947	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021					
Client ID:	LCSS	Batch	n ID: 53	947	F	RunNo: 70	0616				

Surr: 4-Bromofluorobenzene

Prep Date: 7/24/2020

Analyte

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

SeqNo: 2456690

LowLimit

80

%REC

104

Units: %Rec

120

HighLimit

%RPD

RPDLimit

Qual

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

RL Reporting Limit

SPK value SPK Ref Val

1.000

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WO#: 2007C45 30-Jul-20

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8: 975 FAX: 505-345-4 s.hallenvironmental	s NE 7109 <b>Sam</b> 4107	ple Log-In Cheo	ck List
Client Name: Talon Artesia	Work Order Num	ber: 2007C45		RcptNo: 1	
Received By: Scott Anderson Completed By: Juan Rojas	7/24/2020 9:50:00 7/24/2020 10:21:07		Hana g		
Reviewed By: JR 7/24/20					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	na 🗌	
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	,	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken	?	Yes	No 🗹 🛛	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	nless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗀	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		71 1/20
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: CM	<u> </u>
Special Handling (if applicable)					
15. Was client notified of all discrepancies with th	is order?	Yes 📋	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:		hone 🗌 Fax	In Person	
16. Additional remarks:		, in the second s			
17. <u>Cooler Information</u>	en i sen i se i se i se i se i se i se i		<b>1</b>		

LO		Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				

ndard I Rush Andry Analy ANALYSIS LABORATORY	Name: www.hallenvironmental.com	<u>CCOTEP / しざてら</u> <u> </u>			904, 802 1 MR (802 (802	з,8 2 Р 2 Р 2 Р 2 Р 2 Р 2 Р 2 Р 2 Р 2 Р 2 Р	1. 1311 'K15cS 1. 1311 'K15cS 1. 100 1. 10	(1) (日子 (1) (日子 (1) (日子 (1) (日子 (1) (日) (日子 (1) (日子 (1) (日子 (1) (日子 (1) (日子 (1) (日子) (1) (日子) (1) (日子) (1) (日子) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	20 20 20 20 20 20 20 20 20 20	d# Type Affat No. Affat No	Ter - CON & X X		XX					UM NR 1990 DOS Rem	Confice 7. 24, 209
ime: <u>Rush</u>	Project Name:	Ĩ	1706		Rebecca Pons	(	<u>13111 'Rig</u>	olers: 🗼	Cooler Temp(national ce): Z, G,									Presived by: Via:	Received by: Viz. U SPA Counce 7 4.2
Client: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		=ax#: (575) 746-8905	age:	Standard     Level 4 (Full Validation)	□ Az Compliance			Data Matriv Sample Name	1/1 2/1 2/1 2/2 2/2 2/2 2/2 2/2 2/2 2/2	10.12.AM LUXUN COUTER	11, JUAN					Date: Time: Relinquished by:	Time: Relinquished by: 20 MM MM MC

Received by OCD: 12/21/2020 3:09:18 PM

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July 30, 2020

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

RE: Devon Cooter 16ST3H

OrderNo.: 2007C46

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Devon Cooter 16ST3H

2007C46-001

Project:

Lab ID:

Analytical Report
Lab Order 2007C46

Hall Environmental A	nalysis Laboratory, Inc.
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Date Reported: 7/30/2020

Client Sample ID: #3 Devon Cooter Comp 1 Collection Date: 7/22/2020 11:00:00 AM Received Date: 7/24/2020 9:50:00 AM

2007010.001	Muthan SOIL									
Analyses	Result		<b>RL</b> Qual Units		DF	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	ORGANICS					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			

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 8

Analytical Report
Lab Order 2007C46

Date Reported: 7/30/2020
Client Sample ID: #3 Devon Cooter Comp 2

Project:	Devon Cooter 16ST3H			Collection Dat	<b>e:</b> 7/2	22/2020 11:15:00 AM				
Lab ID:	2007C46-002	Matrix: SOIL		Received Date: 7/24/2020 9:50:00 AM						
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analyst	JMT			
Chloride	)	61	61	mg/Kg	20	7/28/2020 8:27:10 PM	54013			
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	CLP			
Diesel R	Range Organics (DRO)	ND	9.5	mg/Kg	1	7/29/2020 3:33:13 PM	53977			
Motor O	il 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 ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB			
Gasoline	e 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 ME	THOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	e	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			
Ethylber	nzene	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
- 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

Devon Cooter 16ST3H

Project:

**Analytical Report** Lab Order 2007C46

Date Reported: 7/30/2020

Client Sample ID: #3 Devon Cooter Comp 3 Collection Date: 7/22/2020 11:30:00 AM **Descived Date:** 7/24/2020 0.50.00 AM

Lab ID: 2007C46-003	Matrix: SOIL	<b>Received Date:</b> 7/24/2020 9:50:00 AM								
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 RAN	IGE ORGANICS				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 RA	NGE				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 3 of 8

**Project:** Devon Cooter 16ST3H

**Analytical Report** Lab Order 2007C46

Date Reported: 7/30/2020 Client Sample ID: #3 Devon Cooter Comp 4 Collection Date: 7/22/2020 11:45:00 AM

Hojeen Devon Cooler 1051511		<b>Concerton Duce</b> , <i>p</i> 22, 2020 11, 19,00 mm								
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	E ORGANICS				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 RANG	E				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 4 of 8

Client: Project:		n Artesia on Cooter 16ST	'3Н								
Sample ID:	MB-54013	SampT	ype: <b>ml</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	Batch ID: 54013			RunNo: 70680					
Prep Date:	7/28/2020	Analysis D	ate: 7/	28/2020	S	SeqNo: 24	459573	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-54013	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 54	013	F	RunNo: <b>70680</b>					
Prep Date:	7/28/2020	Analysis D	ate: 7/	28/2020	5	SeqNo: 24	459574	Units: <b>mg/K</b>	g		
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

2007C46

30-Jul-20

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Artesia 1 Cooter 16ST	ГЗН									
Sample ID: LCS-53977	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batc	h ID: 53	977	F	RunNo: 70	0650					
Prep Date: 7/27/2020	Analysis E	Analysis Date: 7/28/2020				458651	Units: <b>mg/k</b>	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130				
Surr: DNOP	6.1		5.000		122	30.4	154				
Sample ID: MB-53977	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batc	h ID: 53	977	F	RunNo: 70	0650					
Prep Date: 7/27/2020	Analysis [	Date: 7/	28/2020	S	eqNo: 24	458652	Units: <b>mg/k</b>	٤g			
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

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2007C46

30-Jul-20

WO#:

# QC SUMMARY REPORT Hall En

	WO#:	2007C46
nvironmental Analysis Laboratory, Inc.		30-Jul-20

Client: Project:	Talon Artesia Devon Cooter	16ST3H	I									
Sample ID: mb-	5 <b>3942</b> S	SampType	e: MBL	.K	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS		Batch ID	: <b>539</b> 4	12	R	unNo: <b>7(</b>	0616					
Prep Date: 7/2	<b>4/2020</b> Ana	lysis Date	: 7/25	5/2020	S	eqNo: 24	456612	Units: mg/Kg	I			
Analyte	Re	sult F	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga Surr: BFB	. ,	ND 910	5.0	1000		90.9	66.6	105				
Sample ID: Ics-5	i <b>3942</b> S	SampType	E LCS		Tes	Code: EF	PA Method	8015D: Gasoli	ne Rang	e		
Client ID: LCS	S	Batch ID	5394	12	R	unNo: <b>7(</b>	0616					
Prep Date: 7/2	<b>4/2020</b> Ana	lysis Date	: 7/25	5/2020	S	eqNo: 24	456613	Units: mg/Kg	I			
Analyte	Re	sult F	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga	. ,	22	5.0	25.00	0	87.1	72.5	106				
Surr: BFB	1	000		1000		100	66.6	105				
Sample ID: mb-	5 <b>3947</b> S	SampType	e: MBL	.к	Tes	Code: EF	PA Method	8015D: Gasoli	ne Range	e		
Client ID: PBS		Batch ID	5394	17	R	RunNo: 70616						
Prep Date: 7/2	<b>4/2020</b> Ana	lysis Date	: 7/26	6/2020	S	eqNo: 24	456636	Units: %Rec				
Analyte	Re	sult F	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		910		1000		90.5	66.6	105				
Sample ID: Ics-	<b>3947</b>	SampType	E: LCS		Tes	Code: EF	PA Method	8015D: Gasoli	ne Rang	e		
Client ID: LCS	s	Batch ID	5394	17	F	unNo: <b>7(</b>	0616					
Prep Date: 7/2	<b>4/2020</b> Ana	lysis Date	: 7/26	6/2020	S	eqNo: 24	456637	Units: %Rec				
Analyte	Re	sult F	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1	000		1000		103	66.6	105				

**Qualifiers:** 

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

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

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

PQL

Result

1.0

Client:	Talon A															
Project:	Devon Cooter 16ST3H															
Sample ID: I	mb-53942	SampTyp	De: ME	BLK	TestCode: EPA Method 8021B: Volatiles											
Client ID:	PBS	Batch I	D: <b>53</b>	942	F	RunNo: 7										
Prep Date:	7/24/2020	Analysis Dat	te: 7/	25/2020	S	BeqNo: 24	456665	Units: mg/Kg	J							
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-Bromo	ofluorobenzene	1.0		1.000		102	80	120								
Sample ID: LCS-53942     SampType: LCS     TestCode: EPA Method 8021B: Volatiles																
Client ID:	LCSS	Batch I	D: <b>53</b> 9	942	F	RunNo: 7										
Prep Date:	7/24/2020	Analysis Dat	te: 7/	25/2020	8	SeqNo: 24	456666	Units: mg/Kg	9							
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-Bromo	ofluorobenzene	1.0		1.000		104	80	120								
Sample ID: r	mb-53947	SampTyp	be: ME	BLK	Tes	tCode: El	PA Method	8021B: Volati	les							
Client ID:	PBS	Batch I	D: <b>53</b>	947	F	RunNo: 7										
Prep Date:	7/24/2020	Analysis Dat	te: 7/	26/2020	S	SeqNo: 24	456689	Units: %Rec								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Surr: 4-Bromo	ofluorobenzene	1.0		1.000		101	80	120								
Sample ID: I	LCS-53947	SampTyp	be: LC	S	Tes	tCode: El	PA Method	8021B: Volati	les							
Client ID: I	LCSS	Batch I	D: <b>53</b>	947	F	RunNo: 7	0616									
Prep Date:	7/24/2020	Analysis Dat	456690	Units: %Rec												

Surr: 4-Bromofluorobenzene

**Qualifiers:** 

Analyte

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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

LowLimit

80

%REC

104

120

HighLimit

%RPD

RPDLimit

Qual

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

RL Reporting Limit

SPK value SPK Ref Val

1.000

2007C46

30-Jul-20

WO#:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-	ental Analysis Labor 4901 Hawkir Albuquerque, NM 8 3975 FAX: 505-345- its.hallenvironmenta	ns NE 17109 <b>Sam</b> 4107	Sample Log-In Check List							
Client Name: Talon Artesia	Work Order Nur	nber: 2007C46		RcptNo:	1						
Received By: Scott Anderson	7/24/2020 9:50:00	) AM									
Completed By: Juan Rojas	7/24/2020 10:16:5	57 AM									
Reviewed By: JP 7/24/20	)		Junio								
Chain of Custody											
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present							
2. How was the sample delivered?		<u>Courier</u>									
Log In 3. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗌	NA 🗌							
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆							
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌								
6. Sufficient sample volume for indicated te	st(s)?	Yes 🗹	No 🗌								
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌								
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌							
9. Received at least 1 vial with headspace <	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	_						
10. Were any sample containers received br	oken?	Yes 🗌	No 🗹	# of preserved bottles checked							
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗔	for pH:	12 unless noted)						
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?							
13. Is it clear what analyses were requested?	)	Yes 🗹	No 🗌		4.0 Trulad						
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌 🗌	Checked by:	me Try/re						
Special Handling (if applicable)											
15. Was client notified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹							
Person Notified:	Date		0.07 CLIMMA ***********************************	]							
By Whom:	Via:	🗌 eMail 🔲 F	hone 🗌 Fax	In Person							
Regarding:		······································									
Client Instructions:											
16. Additional remarks:											
17. <u>Cooler Information</u> Cooler No. Temp %   Condition	Seal plant - Seal No.		Olonical Duri								

1	2.9	Good				
Cooler No	Temp <sup>e</sup> C	Condition	Seal Intact	Seal No	Seal Date	Signed By

Page 1 of 1

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	*OS : : :	>O⁴' ; SMIS CB,8	ਰ '° ਤਹ2 ਰ ਟ	(1 0) (1.408/s (1.408 (1.408 (AC	9(GH 9bic 310 310 (. (.	TEN / XETE TP / XETE DE (Neth htsM) Ede ANS (Neth S M8 AS ACV (Sem ACV (Sem ACV) (Sem								Remarks: Please cc the following via email: Dadkins@talonhe.com Brons@talonhe.com	Bsinclair@talonipe.com	if necessary, samples submitted to Hall Environmental may be subcontracted to other accepting lipboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
ime	र्द्रि Standard 🗆 Rush 🧳	Project Name:	DELINN COOTEN 16573H		700794,351.01	Project Manager: &	Rebecca Pons		Sampler: 「り1)」 <u>Aいららい</u> On Ice: 取Yes こ No	SIS:	Cooler Temp(neturing.cp.: 2, 4, -0, = 2, 5 Container Preservative HEAL No Trune and # Trune	T 1 y b c	2	100-				_	Received by: Via: 7 Date Time WWMMML, 7 MJ/0 BO	Received by: Via: N Date Time	antracted to other-accredited (abovatories. This serves as notice of the antracted to $S/4$ $7.27$ , $30$
<b>Custody Record</b>	Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #: 575-441-0980	<sup>-</sup> ax#: (575) 746-8905	age:	Standard    Level 4 (Full Validation)	n:			Ormal	11 true bound to the bound of t	1121X Deven Morel					Date: 10 Time: Relinquished by	Date: Time: Relinguished by: 0 -	If necessary, samples submitted to Hall Environmental may be subc

**Released to Imaging: 9/14/2022 1:39:06 PM** 

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August 13, 2020

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

RE: Devon Cooter 5H-3H CTB

OrderNo.: 2008237

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Hall Environmental Analysis Laboratory, Inc.	
--	--

Lab Order 2008237

Date Reported: 8/13/2020

CLIENT: Talon Artesia		Cl	ient Sample II	D:S-	1A	
<b>Project:</b> Devon Cooter 5H-3H CTB	Cooter 5H-3H CTB Collection Dat					
Lab ID: 2008237-001	Matrix: SOIL		<b>Received Dat</b>	e: 8/6	5/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	510	60	mg/Kg	20	8/10/2020 5:10:36 PM	54292
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				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 RANG	<b>GE</b>				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Analytical Report
Lab Order 2008237

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

CLIENT: Talon Artesia	rtesia 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	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CJS	
Chloride	18000	600	mg/Kg	20	0 8/12/2020 1:12:21 PM	54292	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				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 RANG	E				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

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**Analytical Report** Lab Order 2008237

Date Reported: 8/13/2020

CLIENT: Talon Artesia		Cl	ient Sample II	<b>D:</b> S-:	3A	
<b>Project:</b> Devon Cooter 5H-3H CTB	Collection Date: 8/4/2020 1:20:00 PM					
Lab ID: 2008237-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 8/6	5/2020 8:00:00 AM	
Analyses	Result	RL	Qual 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	ORGANICS				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	E				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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**Analytical Report** Lab Order 2008237

CLIENT: Talon Artesia		Cli	ent Sample II	<b>D:</b> S-4	4A	
<b>Project:</b> Devon Cooter 5H-3H CTB		C	Collection Dat	<b>e:</b> 8/4	/2020 2:15:00 PM	
Lab ID: 2008237-004	Matrix: SOIL		<b>Received</b> Dat	<b>e:</b> 8/6	5/2020 8:00:00 AM	
Analyses	Result	RL	Qual 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	ORGANICS				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	E				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008237

Date Reported: 8/13/2020

CLIENT: Talon Artesia		Cli	ient Sample II	<b>D:</b> N-	BG		
<b>Project:</b> Devon Cooter 5H-3H CTB	Collection Date: 8/4/2020 12:40:00 PM						
Lab ID: 2008237-005	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 8/6	5/2020 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride	1200	60	mg/Kg	20	8/10/2020 6:25:01 PM	54292	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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**Analytical Report** 

Hall Environmental Analysi	is Laboratory, Inc.
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Lab Order 2008237

Date Reported: 8/13/2020

CLIENT: Talon Artesia Project: Devon Cooter 5H-3H CTB			ient Sample II		-BG 1/2020 12:30:00 PM	
Lab ID: 2008237-006	Matrix: SOIL				5/2020 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	ORGANICS				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:** 

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- Р Sample pH Not In Range
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Client: Project:		Artesia 1 Cooter 5H-3H CT	В						
Sample ID:	MB-54292	SampType: <b>n</b>	nblk	Tes	tCode: EPA Method	l 300.0: Anions			
Client ID:	PBS	Batch ID: 5	4292	F	RunNo: <b>70965</b>				
Prep Date:	8/10/2020	Analysis Date:	8/10/2020	S	eqNo: <b>2472350</b>	Units: <b>mg/Kg</b>	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.	5						
Sample ID:	LCS-54292	SampType: I	s	Tes	tCode: EPA Method	I 300.0: Anions	;		
Client ID:	LCSS	Batch ID: 5	4292	F	RunNo: <b>70965</b>				
Prep Date:	8/10/2020	Analysis Date:	8/10/2020	5	eqNo: <b>2472351</b>	Units: mg/Kg	]		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.	5 15.00	0	91.3 90	110			

Qualifiers:

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- E Value above quantitation range
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- P Sample pH Not In Range
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2008237

13-Aug-20

WO#:

#### Released to Imaging: 9/14/2022 1:39:06 PM

# **OC SUMMARY REPORT** H

ZC SUMMART REFORT	WO#:	2008237
Hall Environmental Analysis Laboratory, Inc.		13-Aug-20

Client:	Talon Art	esia oter 5H-31									
Project:	Devon Co	oter 3H-31	псів								
Sample ID:	2008237-001AMS	SampT	ype: <b>MS</b>	3	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	S-1A	Batch	ID: <b>54</b>	229	F	RunNo: <b>7</b>	0967				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	5	SeqNo: 2	472593	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O Surr: DNOP	Organics (DRO)	51 5.4	9.9	49.26 4.926	0	104 110	47.4 30.4	136 154			
Sample ID:	2008237-001AMSE	SampT	ype: <b>M</b> \$	SD	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	S-1A	Batch	ID: 54	229	F	RunNo: <b>7</b>	0967				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	S	SeqNo: 2	472594	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	43	10	49.75	0	87.3	47.4	136	16.3	43.4	
Surr: DNOP		4.2		4.975		85.2	30.4	154	0	0	
Sample ID:	LCS-54229	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	LCSS	Batch	ID: <b>54</b>	229	F	RunNo: <b>7</b>	0967				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	5	SeqNo: 2	472657	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	63	10	50.00	0	125	70	130			
Surr: DNOP		6.6		5.000		131	30.4	154			
Sample ID:	MB-54229	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batch	ID: <b>54</b>	229	F	RunNo: <b>7</b>	0967				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	S	SeqNo: 2	472660	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O		ND	10								
Motor Oil Range Surr: DNOP	e Organics (MRO)	ND 15	50	10.00		145	30.4	154			
Sull. DNOP		15		10.00		145	50.4	154			
Sample ID:	LCS-54255	SampT			Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:			ID: <b>54</b>			RunNo: <b>7</b>					
Prep Date:	8/7/2020	Analysis Da	ate: <b>8/</b>	10/2020	S	SeqNo: 2	472908	Units: %Rec			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.0		5.000		100	30.4	154			
Sample ID:	MB-54255	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batch	ID: 54	255	F	RunNo: <b>7</b>	0976				
	8/7/2020	Analysis Da	ate <sup>.</sup> 8/	11/2020	S	SeqNo: 2	472909	Units: %Rec			
Prep Date:	0/1/2020	/ indigoio Di									

#### **Qualifiers:**

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

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

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Released to Imaging: 9/14/2022 1:39:06 PM

Client: Project:	Talon Art Devon Co	tesia poter 5H-3	Н СТВ								
Sample ID: MB-5 Client ID: PBS	4255	•	ype: <b>ME</b> 1 ID: <b>54</b> 2			tCode: EF RunNo: 70		8015M/D: Die	sel Range	e Organics	
Prep Date: 8/7/2	2020	Analysis D				GeqNo: 24		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
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2008237

13-Aug-20

WO#:

# QC SUMMARY REPORT Hall En

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	WO#:	2008237
nvironmental Analysis Laboratory, Inc.		13-Aug-20

Client: Project:	Talon Art Devon Co	esia poter 5H-3H	І СТВ									
Sample ID:	2008237-001ams	SampTy	pe: <b>MS</b>	3	Test	tCode: EF	A Method	8015D: Gaso	line Range	9		
Client ID:	S-1A	Batch	ID: <b>54</b> 2	224	RunNo: <b>70921</b>							
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	S	eqNo: 24	70444	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	21	4.7	23.54	0	88.7	61.3	114				
Surr: BFB		1000		941.6		108	75.3	105			S	
Sample ID:	2008237-001amsd	SampTy	pe: <b>MS</b>	SD	Test	tCode: EF	A Method	8015D: Gaso	line Range	9		
Client ID:	S-1A	Batch	ID: 54	224	R	unNo: <b>70</b>	921					
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	7/2020	S	eqNo: 24	70445	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	23	4.9	24.32	0	95.4	61.3	114	10.5	20		
Surr: BFB		1000		972.8		107	75.3	105	0	0	S	
r				0	Test	Code: <b>F</b>	A Method	8015D: Gaso	line Rang	2		
Sample ID:	lcs-54224	SampTy	pe: LC	3			/ monou					
Sample ID: Client ID:			'pe: LC ID: 54	-		lunNo: 70				-		
•	LCSS		ID: <b>54</b> 2	224	R		921	Units: mg/K	U	-		
Client ID:	LCSS	Batch	ID: <b>54</b> 2	224 7/2020	R	unNo: <b>70</b>	921		U	RPDLimit	Qual	
Client ID: Prep Date: Analyte	LCSS	Batch Analysis Da	ID: <b>54</b> 2 ate: <b>8</b> /	224 7/2020	R S	tunNo: <b>70</b> GeqNo: <b>2</b> 4	)921 170489	Units: <b>mg/K</b>	g		Qual	
Client ID: Prep Date: Analyte	LCSS 8/6/2020	Batch Analysis Da Result	ID: <b>54</b> : ate: <b>8/</b> PQL	224 7/2020 SPK value	R S SPK Ref Val	2unNo: <b>70</b> 6eqNo: <b>24</b> %REC	9921 170489 LowLimit	Units: <b>mg/K</b> HighLimit	g		Qual S	
Client ID: Prep Date: Analyte Gasoline Rang	LCSS 8/6/2020 e Organics (GRO)	Batch Analysis Da Result 24	ID: <b>54</b> ate: <b>8/</b> PQL 5.0	224 7/2020 SPK value 25.00 1000	R S SPK Ref Val 0	2unNo: <b>70</b> 5eqNo: <b>24</b> %REC 97.2 110	9921 70489 LowLimit 72.5 75.3	Units: <b>mg/K</b> HighLimit 106	g %RPD	RPDLimit		
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	LCSS 8/6/2020 e Organics (GRO) mb-54224	Batch Analysis Da Result 24 1100 SampTy	ID: <b>54</b> ate: <b>8/</b> PQL 5.0	224 7/2020 SPK value 25.00 1000 BLK	R S SPK Ref Val 0 Test	2unNo: <b>70</b> 5eqNo: <b>24</b> %REC 97.2 110	9921 170489 LowLimit 72.5 75.3 PA Method	Units: <b>mg/K</b> HighLimit 106 105	g %RPD	RPDLimit		
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	LCSS 8/6/2020 re Organics (GRO) mb-54224 PBS	Batch Analysis Da Result 24 1100 SampTy	ID: <b>54</b> ; ate: <b>8/</b> <u>PQL</u> 5.0 rpe: <b>ME</b> ID: <b>54</b> ;	224 7/2020 SPK value 25.00 1000 BLK 224	R S SPK Ref Val 0 Test R	RunNo: 70 GeqNo: 24 %REC 97.2 110 Code: EF	9921 170489 LowLimit 72.5 75.3 24 Method	Units: <b>mg/K</b> HighLimit 106 105	g %RPD line Range	RPDLimit		
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	LCSS 8/6/2020 re Organics (GRO) mb-54224 PBS	Batch Analysis Da Result 24 1100 SampTy Batch	ID: <b>54</b> ; ate: <b>8/</b> <u>PQL</u> 5.0 rpe: <b>ME</b> ID: <b>54</b> ;	224 7/2020 SPK value 25.00 1000 3LK 224 7/2020	R S SPK Ref Val 0 Test R	RunNo: 70 GeqNo: 24 97.2 110 Code: EF	9921 170489 LowLimit 72.5 75.3 24 Method	Units: mg/K HighLimit 106 105 8015D: Gaso	g %RPD line Range	RPDLimit		

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р 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

Qual

RPDLimit

ooter 5H-3	и стр							
ooler 5H-3	псів							
Samp	Гуре: <b>МS</b>	5	Tes	tCode: EF	PA Method	8021B: Volat	iles	
Batc	h ID: 542	224	F	unNo: <b>7</b> 0	0921			
Analysis [	Date: <b>8/</b>	7/2020	S	eqNo: 24	470495	Units: mg/K	g	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	
1.1	0.097	0.9709	0	114	78.1	153		
0.97	0.024	0.9709	0	100	76.3	120		
1.0	0.049	0.9709	0	104	78.5	120		
1.0	0.049	0.9709	0	107	78.1	124		
3.1	0.097	2.913	0	107	79.3	125		
1.1		0.9709		109	80	120		
<b>d</b> Samp	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volat	iles	
Batch ID: 54224			RunNo: 70921					
Analysis E	Date: <b>8/</b>	7/2020	S	eqNo: 24	470496	Units: mg/K	g	
	Batch Analysis D Result 1.1 0.97 1.0 1.0 3.1 1.1 d Samp <sup>-1</sup> Batch	Batch ID: 542         Analysis Date:       8/         Result       PQL         1.1       0.097         0.97       0.024         1.0       0.049         1.0       0.049         3.1       0.097         1.1       0.097         3.1       0.097         1.1       0.049         3.1       0.097         1.1       0.049         3.1       0.097         1.1       0.049         Analysis Date:       8/	Batch ID: 54224         Analysis Date: 8/7/2020         Result       PQL       SPK value         1.1       0.097       0.9709         0.97       0.024       0.9709         1.0       0.049       0.9709         1.0       0.049       0.9709         3.1       0.097       2.913         1.1       0.9709       3.1       0.9709         3.1       0.097       2.913         1.1       0.9709       3.1       0.9709         3.1       0.097       2.913         1.1       54224       54224         Batch ID:       54224         Analysis Date:       8/7/2020	Batch ID:       54224       FR         Analysis Date:       8/7/2020       S         Result       PQL       SPK value       SPK Ref Val         1.1       0.097       0.9709       0         1.1       0.097       0.9709       0         1.0       0.049       0.9709       0         1.0       0.049       0.9709       0         1.0       0.049       0.9709       0         3.1       0.097       2.913       0         1.1       0.9709       0       0         3.1       0.097       2.913       0         1.1       0.9709       0       0         6       SampType: MSD       Test         Batch ID:       54224       R         Analysis Date:       8/7/2020       S	Batch ID:       54224       RunNo:       74         Analysis Date:       8/7/2020       SeqNo:       24         Result       PQL       SPK value       SPK Ref Val       %REC         1.1       0.097       0.9709       0       114         0.97       0.024       0.9709       0       100         1.0       0.049       0.9709       0       104         1.0       0.049       0.9709       0       107         3.1       0.097       2.913       0       107         1.1       0.9709       109       109       109         d       SampType:       MSD       TestCode:       EF         Batch ID:       54224       RunNo:       74         Analysis Date:       8/7/2020       SeqNo:       24	RunNo: 70921         Analysis Date: 8/7/2020       SeqNo: 2470495         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         1.1       0.097       0.9709       0       114       78.1         0.97       0.024       0.9709       0       100       76.3         1.0       0.049       0.9709       0       104       78.5         1.0       0.049       0.9709       0       107       78.1         3.1       0.097       2.913       0       107       79.3         1.1       0.9709       109       80         TestCode: EPA Method         Batch ID:       54224       RunNo: 7021         Analysis Date:       8/7/2020       SeqNo: 2470496	Batch ID: 54224       RunNo: 70921         SeqNo: 2470495       Units: mg/K         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         1.1       0.097       0.9709       0       114       78.1       153         0.97       0.024       0.9709       0       100       76.3       120         1.0       0.049       0.9709       0       104       78.1       124         3.1       0.097       2.913       0       107       79.3       125         1.1       0.9709       109       80       120         1.0       0.049       0.9709       0       107       78.1       124         3.1       0.097       2.913       0       107       79.3       125         1.1       0.9709       109       80       120       120         TestCode: EPA Method 821B: Volat         Batch ID:       54224       RunNo: 7021       Volat         Analysis Date:       8/7/2020       SeqNo: 2470496       Units: mg/K	

Prep Date: 8/6/2020	Analysis Date: 8/7/2020			5	SeqNo: 24	470496	3			
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	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 542	224	F							
Prep Date: 8/6/2020	Analysis E	Date: <b>8/</b>	7/2020	S	SeqNo: 24	470537	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	94.1	80	120				
Toluene	0.98	0.050	1.000	0	97.7	80	120				
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120				
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120				
Sample ID: mb-54224 SampType: MBLK				Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID: PBS Batch ID: 54224			224	F	RunNo: <b>7(</b>	0921					

Prep Date: 8/6/2020	Analysis Date: 8/7/2020			S	470539	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

#### Qualifiers:

D

Н

ND

\* Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

E Valu

B Analyte detected in the associated Method BlankE Value above quantitation range

E value above qua

J Analyte detected below quantitation limits

P Sample pH Not In Range

PQL Practical Quanitative Limit

Sample Diluted Due to Matrix

S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

RL Reporting Limit

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HALL ENVIR ANALY LABOR	and the second se	AL	TEL	l Environmental Alb 2: 505-345-3972 ebsite: clients.ha	490 ouquerq 5 FAX:	1 Haw ue, NM 505-34	kins NE 1 87109 15-4107	San	nple Log-In C	heck List
Client Name:	Talon Artes	ia	Work	Order Number	: 2008	8237			RcptNo:	1
Received By:	Juan Roja	S	8/6/2020	0 8:00:00 AM			44	and g	an -	
Completed By: Reviewed By:	Juan Roja	S	8/6/2020 8/6/2	0 8:21:27 AM			Hu	andy		
Chain of Cust	odv		, ,							
1. Is Chain of Cu		ete?			Yes		١	No 🗌	Not Present	
<ol> <li>How was the s</li> </ol>					Cou					
Log In										
3. Was an attemp	ot made to c	ool the sample	s?		Yes		٢	No 🗌	NA 🗌	
4. Were all sampl	es received	at a temperatu	ure of ≥0° C t	o 6.0°C	Yes	Not F		1o 🔽	NA 🗌	
5. Sample(s) in p	roper contai	ner(s)?			Yes			10 🗌		
6. Sufficient samp	ole volume fo	or indicated tes	t(s)?		Yes	$\checkmark$	N	lo 🗌		
7. Are samples (e	xcept VOA a	and ONG) prop	erly preserve	d?	Yes	~	N	lo 🗌		
8. Was preservati					Yes		N	lo 🔽	NA 🗌	
9. Received at lea	st 1 vial with	n headspace <	1/4" for AQ V	OA?	Yes		N	o 🗌	NA 🗹	TO
10. Were any sam	ple containe	rs received bro	oken?		Yes		Ν	lo 🗸		40
									# of preserved bottles checked	8/10/70
11. Does paperwor					Yes	✓	N	lo 🗌	for pH:	01010
(Note discrepar									(<2 or ∶ Adjusted?	>12 unless noted)
2. Are matrices co					Yes			o 🗌	Adjusted?	
3. Is it clear what						$\checkmark$	N			
14. Were all holding (If no, notify cus	•				Yes	$\checkmark$	N	o 🗌	Checked by:	
Special Handli	ng (if app	licable)								
15. Was client noti	fied of all dis	screpancies wi	th this order?		Yes		٢	10	NA 🗹	
Person N	lotified:			Date						
By Whor	n:		1	Via:	eMa	ail 🗆	Phone	Fax	In Person	
Regardir								a transferration		
	structions:									
16. Additional rem	Parke:									
17. <u>Cooler Inforn</u> Cooler No	nation Temp ℃	Condition	Seal Intact	Seal No S	Seal Da	ate	Signe	d By	1	
1	3.3	Good	Sourmaor				Orgine			
2	2.1	Good							-	
				· · · · · · · · · · · · · · · · · · ·						

Page 1 of 1

IENTAL ZATORY					smail: lytical report.
	RCRA 8 Metals (), F, Br, ИО <sub>3</sub> , ИО <sub>2</sub> , РО <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	2 2			arks: Please cc the following via email: Dadkins@talonipe.com Rpons@talonipe.com Bsinclair@talonipe.com
4901 Haw Tel. 505.	BTEX / МТВЕ / ТМВ's (8021) ТРЭ:8015D(GRO / DRO / МRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) FDB (Method 504.1)	2	)))		Remarks:     Please cc the       Remarks:     Please cc the       Remarks:     Please cc the       Backins@talonlpe.com     Bsinclair@talonlpe.com       Image: State of the state of the state of the set of the s
2 Doug 1sh Sug 2 Sug entry DI	see checklist Tive HEAL No.	100-	2007 2004	1	Date Time $S \mathcal{L} _{\mathcal{L}O}$ $Z$ Date Time $\mathcal{L}(\mathcal{L}_{\mathcal{O}O})$
Turn-Around Time: X Standard Rush Project Name: Too Jow Cocked Project #:	Project Manager: Rebecca Pons Sampler: <b>Q. P.U.M.</b> On Ice: <b>Q. Yes</b> # of Coolers: 3 Cooler Temp(metuding cr): Se. Container Preservative Type and # Type	fer du	771		Received by Via: Received by Via: Received by: Via:
Client: Talon LPE Custody Record T Client: Talon LPE 408 W Texas St Mailing Address: Artesia, NM 88210 F Phone #: 575-441-0980	email or Fax#: (575) 746-8905 P QA/QC Package: CA/QC Package: CA/QC Package: Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Accreditation: DAz Compliance Candard Can	41-12 4-1-2 4-2-2	2, 2, 2	-2 2 - W - K C.	Date:       Time:       Relinquished by:       Received by:       Via:       Date       Time       Remarks:       Please cc the following via email:         Vue       1305       Ve       Please       Cc the following via email:         Pate:       Time:       Relinquished by:       Sil5       20       Soldkins@talonlpe.com         Pate:       Ime:       Relinquished by:       Na:       Date       Time       Remarks:       Please cc the following via email:         Pate:       Time:       Relinquished by:       Na:       Date       Time       Rpons@talonlpe.com         Pate:       Iqm       Rpons@talonlpe.com       Roons@talonlpe.com       Bsinclair@talonlpe.com         Received by:       Na:       Date       Time       Bsinclair@talonlpe.com         Received by:       Na:       Na:       Date       Sinclair@talonlpe.com         Received by:       Na:       Na:       Na:       Sinclair@talonlpe.com         Received by:

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

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Hall Environmental Analysis Laboratory, Inc				Lab Order <b>2008D73</b> Date Reported: <b>9/1/2020</b>						
CLIENT:	Talon Artesia		Clier	nt Sample II	): SL	A S.SW 2'				
<b>Project:</b> 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	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analys	st: DJF			
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/27/2020 5:57:02 PM	54709			

Gasoline Range Organics (GRO) Surr: BFB	ND 102	4.8 70-130	mg/Kg %Rec	1 1	8/27/2020 5:57:02 PM 8/27/2020 5:57:02 PM	54709 54709
EPA METHOD 8015M/D: DIESEL RANGE OF			Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/27/2020 12:33:59 PM	54712
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/27/2020 12:33:59 PM	54712
Surr: DNOP	96.9	30.4-154	%Rec	1	8/27/2020 12:33:59 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
- Н 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

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

Page 1 of 12

Diesel Range Organics (DRO)

Surr: DNOP

Motor Oil Range Organics (MRO)

**Analytical Report** 

8/27/2020 12:43:46 PM 54712

8/27/2020 12:43:46 PM 54712

8/27/2020 12:43:46 PM 54712

Hall E	all Environmental Analysis Laboratory, Inc.					Lab Order <b>2008D73</b> Date Reported: <b>9/1/2020</b>			
CLIENT:	Talon Artesia		Cl	ient Sample II	D: SL	A 2'			
Project:	Devon Cooter 16st 3H (	(	Collection Dat	<b>e:</b> 8/2	24/2020 1:05:00 PM				
Lab ID:	2008D73-002	Matrix: SOIL	Received Date: 8/26/2020 8:00:00 AM						
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8015D MOD: GAS	DLINE RANGE				Analyst	DJF		
Gasoline	e 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 ME	THOD 8015M/D: DIESEL				Analyst	BRM			

ND

ND

74.2

9.5

47

30.4-154

mg/Kg

mg/Kg

%Rec

1

1

1

#### 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

Gasoline Range Organics (GRO)

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

Surr: BFB

Surr: DNOP

**Analytical Report** 

8/27/2020 8:48:53 PM

8/27/2020 8:48:53 PM

8/27/2020 12:53:34 PM 54712

8/27/2020 12:53:34 PM 54712

8/27/2020 12:53:34 PM 54712

54709

54709

Analyst: BRM

Hall E	nvironmental An	alysis Laboratory, Inc	Lab Order <b>2008D73</b> Date Reported: <b>9/1/2020</b>					
CLIENT:	Talon Artesia		Client Sample I	<b>D:</b> SIA N.SW 2'				
<b>Project:</b>	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	3	Result	RL Qual Units	DF Date Analyzed	Batch			
	THOD 8015D MOD: GAS	OLINE RANGE		Analy	st: DJF			

ND

105

ND

ND

82.4

4.9

8.7

44

30.4-154

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

**Qualifiers:** 

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

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

Page 3 of 12

Hall Environmental Analysis Laboratory, Inc.				Analytical ReportLab Order 2008D73C.Date Reported: 9/1/2020					
CLIENT:	Talon Artesia		Clie	nt Sample II	<b>):</b> S2	A W.SW 2'			
Project:	<b>Project:</b> Devon Cooter 16st 3H (Cooter 3H)			Collection Date: 8/24/2020 1:15:00 PM					
Lab ID:	2008D73-004	Matrix: SOIL	R	eceived Date	e: 8/2	6/2020 8:00:00 AM			
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analys	t: MRA		
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

**CLIENT:** Talon Artesia

**Analytical Report** Lab Order 2008D73

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/1/2020 Client Sample ID: S4A NSW 2'

<b>Project:</b>	Devon Cooter 16st 3H (Co	ooter 3H)	I)         Collection Date: 8/24/2020 2:10:00 PM					
Lab ID:	2008D73-005	Matrix: SOIL		<b>Received Date:</b> 8/26/2020 8:00:00 AM				
Analyses	1	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analyst	: MRA	
Chloride		160	60	mg/Kg	20	8/30/2020 9:22:23 PM	54785	
EPA ME	THOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF	
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	8/27/2020 9:17:27 PM	54709	
Surr:	BFB	102	70-130	%Rec	1	8/27/2020 9:17:27 PM	54709	
EPA ME	THOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	BRM	
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	8/27/2020 1:03:23 PM	54712	
Motor O	il Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2020 1:03:23 PM	54712	
Surr:	DNOP	82.7	30.4-154	%Rec	1	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
- Н 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

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

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**CLIENT:** Talon Artesia

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

Analytical Report Lab Order 2008D73

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/1/2020 Client Sample ID: S4A ESW 2' Collection Date: 8/24/2020 2:15:00 PM

<b>Received Date:</b> 8/26/2020 8:00:00 AM							
nalyzed	Batch						
Analyst:	ЈМТ						
)20 9:37:20 AM	54786						
Analyst:	DJF						
)20 9:46:00 PM	54709						
)20 9:46:00 PM	54709						
Analyst:	BRM						
)20 1:13:12 PM	54712						
)20 1:13:12 PM	54712						
)20 1:13:12 PM	54712						
	020 9:46:00 PM 020 9:46:00 PM						

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

Qualifiers:

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

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

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**Project:** 

Lab ID:

Analyses

Chloride

**Analytical Report** Lab Order 2008D73

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/1/2020 **CLIENT:** Talon Artesia Client Sample ID: S4A SSW 2' Devon Cooter 16st 3H (Cooter 3H) Collection Date: 8/24/2020 2:20:00 PM 2008D73-007 Matrix: SOIL Received Date: 8/26/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: JMT 80 60 mg/Kg 20 8/30/2020 10:14:33 AM 54786 

EPA METHOD 8015D MOD: GASOLINE RA	NGE				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 ORGANICS					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 7 of 12

Surr: BFB

Surr: DNOP

**Analytical Report** Lab Order 2008D73

Analyst: DJF

Analyst: BRM

54712

54712

54712

8/27/2020 10:43:05 PM 54709

8/27/2020 10:43:05 PM 54709

8/27/2020 1:33:01 PM

8/27/2020 1:33:01 PM

8/27/2020 1:33:01 PM

## Hall Environmental Analysis Laboratory, Inc.

**EPA METHOD 8015D MOD: GASOLINE RANGE** 

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Gasoline Range Organics (GRO)

**Diesel Range Organics (DRO)** 

Motor Oil Range Organics (MRO)

Date Reported: 9/1/2020

CLIENT:	Talon Artesia		Client Sample ID: WBG 0'				
Project:	Devon Cooter 16st 3H (Coo	ter 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 Qu	al Units	DF	Date Analyzed	Batch
	THOD 300.0: ANIONS					Analyst	: JMT
Chloride		180	60	mg/Kg	20	8/30/2020 10:26:57 AM	54786

5.0

10

50

30.4-154

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

ND

101

ND

ND

71.0

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

**Qualifiers:** 

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

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

Page 8 of 12

Surr: BFB

Surr: DNOP

**Analytical Report** Lab Order 2008D73

Analyst: DJF

Analyst: BRM

54712

54712

8/27/2020 11:11:36 PM 54709

8/27/2020 11:11:36 PM 54709

8/27/2020 1:42:58 PM 54712

8/27/2020 1:42:58 PM

8/27/2020 1:42:58 PM

### Hall Environmental Analysis Laboratory, Inc.

**EPA METHOD 8015D MOD: GASOLINE RANGE** 

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Gasoline Range Organics (GRO)

**Diesel Range Organics (DRO)** 

Motor Oil Range Organics (MRO)

Date Reported: 9/1/2020

CLIENT:	Talon Artesia		Client Sample ID: NBG 0'				
Project:	Devon Cooter 16st 3H (Coo	oter 3H)	Collection Date: 8/24/2020 2:35:00 PM				
Lab ID:	2008D73-009	Matrix: SOIL	<b>Received Date:</b> 8/26/2020 8:00:00 AM				
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Analyst: JI					t: JMT		
Chloride		170	60	mg/Kg	20	8/30/2020 10:39:22 AM	1 54786

4.6

9.8

49

30.4-154

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

ND

103

ND

ND

54.0

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

**Qualifiers:** 

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

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

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## **OC SUMMARY REPORT** Ha \_\_\_\_\_

<b>L</b>						
Hall Env	Hall Environmental Analysis Laboratory, Inc.					
Client:	Talon Artesia					

Project: Dev	ron Cooter 16st 3H (Cooter 3H)	
Sample ID: MB-54785	SampType: <b>mblk</b>	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: <b>mblk</b>	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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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# **QC SUMMARY REPORT** Hall Er

Page	<b>98</b>	of	<i>102</i>
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	WO#:	2008D73	
nvironmental Analysis Laboratory, Inc.		01-Sep-20	

Client:Talon AProject:Devon 0	Artesia 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: <b>71442</b>
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: <b>MBLK</b>	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: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	11 10.00	106 30.4 154

**Qualifiers:** 

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

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

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# QC SUMMARY REPORT Hall En

	WO#:	2008D73
nvironmental Analysis Laboratory, Inc.		01-Sep-20

	n Artesia on Cooter 16st 3	SH (Co	oter 3H)								
Sample ID: mb-54709			,	Test	Code: E	PA Method	8015D Mod:	Gasolina	Pange		
							d 8015D Mod: Gasoline Range				
Client ID: PBS	PBS Batch ID: 54709			-	RunNo: 71441						
Prep Date: 8/26/2020	Analysis Da	ate: <b>8/</b> 3	27/2020	S	eqNo: 24	494201	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	540		500.0		107	70	130				
Sample ID: Ics-54709	SampTy	ype: LC	S	Test	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range		
Client ID: LCSS	Batch	ID: 547	709	R	RunNo: 7	1441			-		
Prep Date: 8/26/2020	Analysis Da	ate: <b>8/</b> 2	27/2020	s	eqNo: 24	494202	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	70	130				
Surr: BFB	510		500.0		102	70	130				
Cull Di D	510		500.0		102	10	100				
Sample ID: 2008d73-001a		ype: MS		Test	-	-	8015D Mod:	Gasoline I	Range		
	ams SampTy	ype: <b>MS</b> ID: <b>54</b> 7	6		-	PA Method		Gasoline	Range		
Sample ID: 2008d73-001a	ams SampTy	ID: 547	S 709	R	tCode: Ef	PA Method			Range		
Sample ID: 2008d73-001a Client ID: SIA S.SW 2'	ams SampTy Batch	ID: 547	5 709 27/2020	R	tCode: EF RunNo: 7' SeqNo: 24	PA Method	8015D Mod:		Range RPDLimit	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020	ams SampTy Batch Analysis Da Result	ID: <b>54</b> 7 ate: <b>8/</b> 2	5 709 27/2020	R	tCode: EF RunNo: 7 SeqNo: 24	PA Method 1441 494204	8015D Mod: Units: mg/k	ζg	-	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte	ams SampTy Batch Analysis Da Result	ID: <b>547</b> ate: <b>8/</b> 2 PQL	5 709 27/2020 SPK value	R S SPK Ref Val	Code: EF RunNo: 7 SeqNo: 24 %REC	PA Method 1441 494204 LowLimit	8015D Mod: Units: mg/K HighLimit	ζg	-	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte Gasoline Range Organics (GRO)	ams SampTy Batch Analysis Da Result 24 520	ID: <b>547</b> ate: <b>8/</b> PQL 4.8	5 709 27/2020 SPK value 24.13 482.6	R S SPK Ref Val 2.344	tCode: EF RunNo: 7 GeqNo: 24 %REC 91.6 108	PA Method 1441 494204 LowLimit 49.2 70	8015D Mod: Units: mg/k HighLimit 122	<b>(g</b> %RPD	RPDLimit	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB	ams SampTy Batch Analysis Da Result 24 520 amsd SampTy	ID: <b>547</b> ate: <b>8/</b> PQL 4.8	5 709 27/2020 SPK value 24.13 482.6	R S SPK Ref Val 2.344 Test	tCode: EF RunNo: 7 GeqNo: 24 %REC 91.6 108	PA Method 1441 494204 LowLimit 49.2 70 PA Method	8015D Mod: Units: mg/k HighLimit 122 130	<b>(g</b> %RPD	RPDLimit	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2008d73-001a	ams SampTy Batch Analysis Da Result 24 520 amsd SampTy	ID: 547 ate: 8/2 PQL 4.8 ype: MS ID: 547	5 709 27/2020 SPK value 24.13 482.6 5D 709	R S SPK Ref Val 2.344 Test R	Code: EF RunNo: 7 GeqNo: 2 %REC 91.6 108 tCode: EF	PA Method 1441 494204 LowLimit 49.2 70 PA Method 1441	8015D Mod: Units: mg/k HighLimit 122 130	(g %RPD Gasoline I	RPDLimit	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2008d73-001a Client ID: SIA S.SW 2'	ams SampTy Batch Analysis Da Result 24 520 amsd SampTy Batch	ID: 547 ate: 8/2 PQL 4.8 ype: MS ID: 547	5 709 27/2020 SPK value 24.13 482.6 5D 709 27/2020	R S SPK Ref Val 2.344 Test R	Code: EF RunNo: 7 GeqNo: 24 %REC 91.6 108 Code: EF RunNo: 7 GeqNo: 24	PA Method 1441 494204 LowLimit 49.2 70 PA Method 1441	8015D Mod: Units: mg/k HighLimit 122 130 8015D Mod:	(g %RPD Gasoline I	RPDLimit	Qual	
Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2008d73-001a Client ID: SIA S.SW 2' Prep Date: 8/26/2020	ams SampTy Batch Analysis Da Result 24 520 amsd SampTy Batch Analysis Da Result	ID: <b>54</b> 7 ate: <b>8</b> /2 PQL 4.8 ype: <b>MS</b> ID: <b>54</b> 7 ate: <b>8</b> /2	5 709 27/2020 SPK value 24.13 482.6 5D 709 27/2020	R SPK Ref Val 2.344 Test R S	Code: EF RunNo: 7 GeqNo: 24 %REC 91.6 108 Code: EF RunNo: 7 GeqNo: 24	PA Method 1441 494204 LowLimit 49.2 70 PA Method 1441 494205	8015D Mod: Units: mg/k HighLimit 122 130 8015D Mod: Units: mg/k	Kg %RPD Gasoline I	RPDLimit Range		

#### **Qualifiers:**

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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY		Hall Environm TEL: 505-345- Website: clien	490 Albuquerq 3975 FAX:	1 Hawkin ue, NM 8 505-345	s NE 7109 Sam 4107	ample Log-In Check List			
Client Na	me: Talon	Artesia	Work Order Nun	nber: 200	3D73		RcptNo:	1	
Received	By: Chey	/enne Cason	8/26/2020 8:00:00	) AM					
Completed	dBy: Juan	n Rojas	8/26/2020 8:34:29	AM		Hangy			
Reviewed	<sup>ву:</sup> И	n 8/2/e/2	0						
<u>Chain of</u>	<u>Custody</u>								
1. Is Chai	n of Custody	complete?		Yes	$\checkmark$	No 🗌	Not Present		
2. How wa	as the sample	delivered?		<u>Cou</u>	<u>tier</u>				
<u>Log In</u>									
	attempt mad	le to cool the sample	s?	Yes		No 🗌	NA 🗌		
4. Were al	l samples rec	eived at a temperatu	re of >0° C to 6.0°C	Yes	$\checkmark$	No 🗌	NA 🗔		
5. Sample	(s) in proper (	container(s)?		Yes		No 🗌			
6. Sufficier	nt sample volu	ume for indicated tes	t(s)?	Yes		No 🗌			
7. Are sam	ples (except)	VOA and ONG) prop	erly preserved?	Yes	$\checkmark$	No 🗋			
8. Was pre	eservative add	led to bottles?		Yes		No 🗹	NA 📋		
9. Receive	d at least 1 vi	al with headspace <	/4" for AQ VOA?	Yes		No 🗌	NA 🗹		
10. Were ar	ny sample coa	ntainers received bro	ken?	Yes		No 🗹 🛛			
11.Does pa	perwork mate	ch bottle labels?		Yes		No 🗆	# of preserved bottles checked for pH:		
		on chain of custody)			_	_		>12 unless noted)	
	-	identified on Chain	of Custody?	Yes	_	No 🗌	Adjusted?	<u> </u>	
		es were requested?				No 🗌	Charles A burg	ne Sperzed	
	-	s able to be met? for authorization.)		Yes		No 🗌		14 0100/CO	
<u>Special H</u>	andling (if	applicable)							
15. Was cli	ent notified of	all discrepancies wit	h this order?	Yes		No 🗌	NA 🗹		
P	erson Notified	f:	Date	•		Ĩ			
B	y Whom:		Via:	eMa	ail 🗌 P	hone 🗌 Fax	In Person		
R	egarding:								
C	lient Instructio	ons:							
16. Additio	nal remarks:							1	
17 Coolor	Information								
IIV Whendow Proceedings		NEXT / And An Interconcerney second and a second	Seal Intact Seal No	Seal D	ite	Signed By			
1	5.2	Good		panganare : Ibhilip¥: 200351					
2	5.4	Good							
3 4	2.2	Good Good							
[ <b>*</b>	0.0	10000		1					

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**Released to Imaging: 9/14/2022 1:39:06 PM** 

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Talon LPE	329944
408 W Texas	Action Number:
Artesia, NM 88210	12826
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/14/2022

Action 12826