

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: N 32.1236382 Latitude NAD 8 Longitude: W -103.9883423

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 28
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Approximately 28 BBls 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; none 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.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u>	Title: <u>Project Manager</u>
Signature: _____	Date: <u>12/15/20</u>
email: <u>Rpons@talonlpe.com</u>	Telephone: <u>575-441-0980</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	NAB1701352947
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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?	60 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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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: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: 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: _____

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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: _____ 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: _____

talonlpe.com • 866.742.0742



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

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st 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
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or a playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

As this incident occurred in an area with a depth to groundwater of more than 50-feet 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 ft.-100 ft	Chloride	EPA 300.0 or SM4500 Cl 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](#).

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

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

ND = Analyte Not Detected

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

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				2,500 mg/kg	10,000 mg/kg
Comp 1	0-1	07/22/2020	ND	ND	ND	2600	2100	4700	120
Comp 2	0-1	07/22/2020	ND	ND	ND	ND	ND	-	61
Comp 3	0-1	07/22/2020	ND	ND	ND	ND	ND	-	160
Comp 4	0-1	07/22/2020	ND	ND	ND	ND	ND	-	ND

ND = Analyte Not Detected

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

ND = Analyte Not Detected

NT= Analyte Not Tested

BG=Background Sample

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

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure 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

ND = Analyte Not Detected

NT= Analyte Not Tested

BG=Background Sample

SW = Sidewall Soil 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](#).

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 I Site Maps
Appendix II Soil Survey, Groundwater Data
Appendix III Initial and Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Data



APPENDIX I

SITE MAPS

INITIAL SITE MAP (Work Plan)

DEVON COOTER 16 STATE 005H API 30-015-37627

Oil or Gas Well 7

AH-5

Spill Area measuring 8,146.07 Sq. Ft.

AH-2

AH-1

AH-4

AH-3

Tank 10

Tank 9

Tank 11

Tank 14

Tank 12

Tank 15





© SPOT IMAGE
© 2015 Google

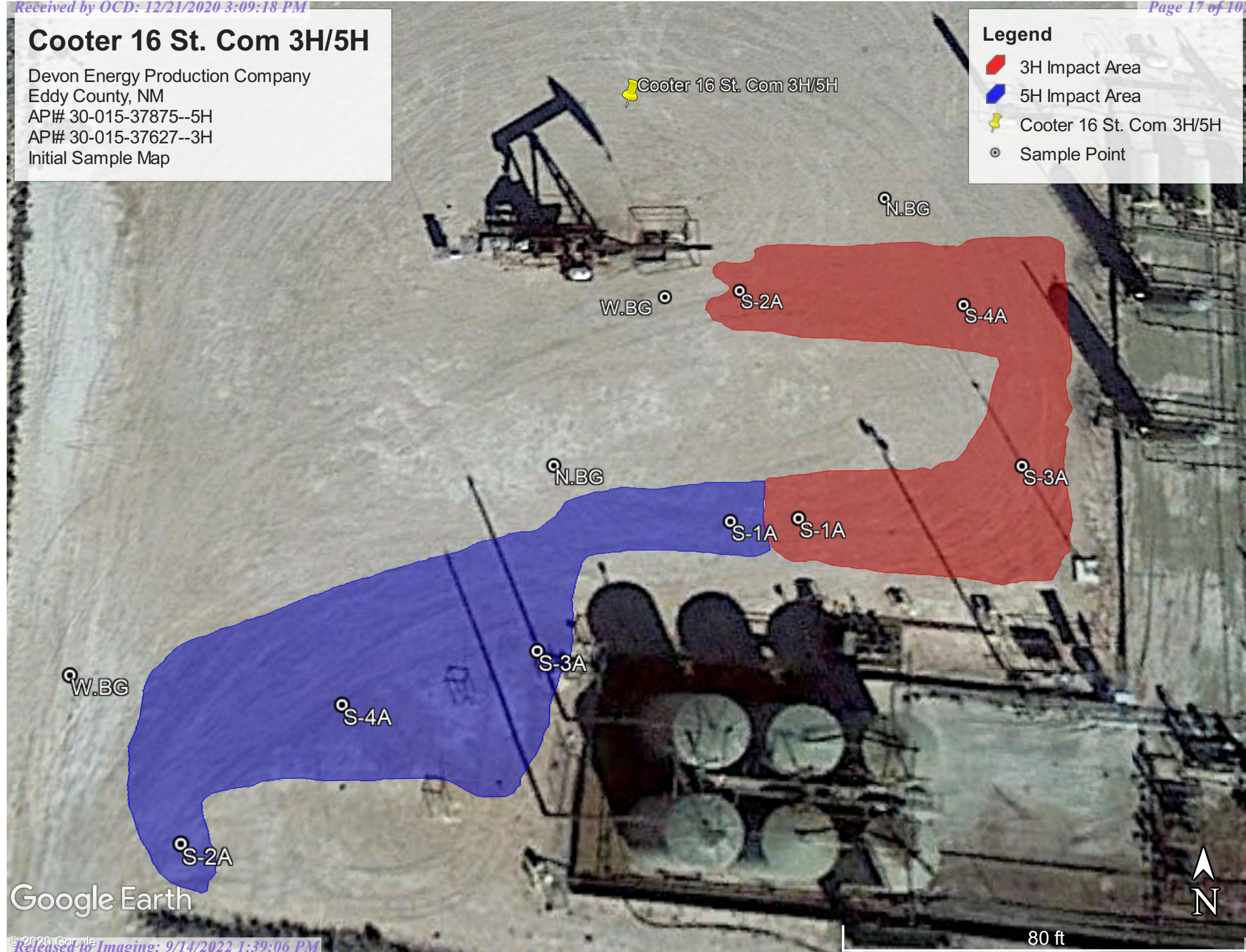
Google earth

Cooter 16 St. Com 3H/5H

Devon Energy Production Company
Eddy County, NM
AP# 30-015-37875--5H
AP# 30-015-37627--3H
Initial Sample Map

Legend

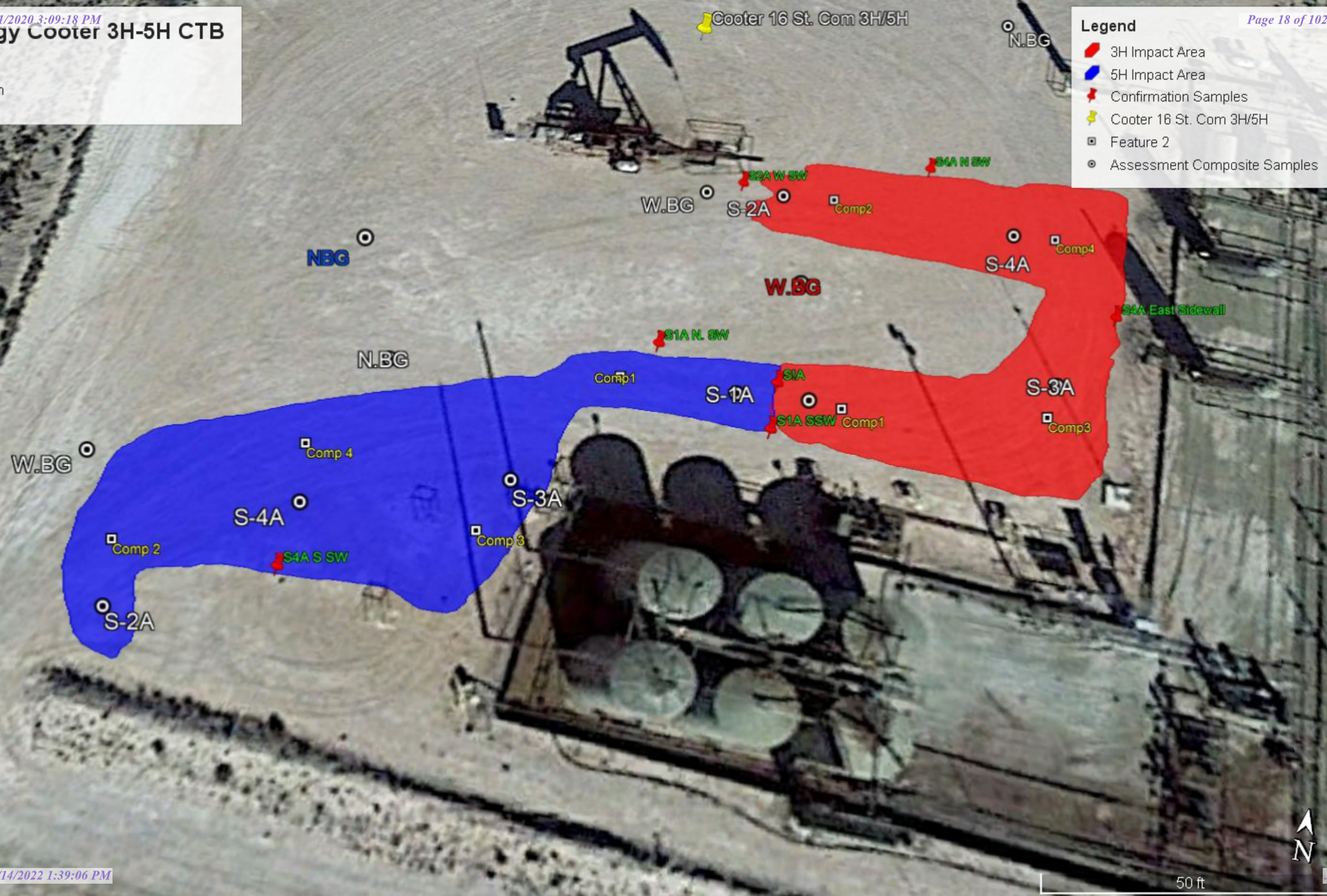
-  3H Impact Area
-  5H Impact Area
-  Cooter 16 St. Com 3H/5H
-  Sample Point



Google Earth

Legend

- 3H Impact Area
- 5H Impact Area
- Confirmation Samples
- Cooter 16 St. Com 3H/5H
- Feature 2
- Assessment Composite Samples





APPENDIX II

SOIL SURVEY, GROUNDWATER DATA

Custom Soil Resource Report

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

Custom Soil Resource Report

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
C 02371		C	ED	2	3	15	25S	29E		596741	3555106*	1409	200			60	140
C 02680		CUB	ED	2	3	15	25S	29E		596741	3555106*	1409	200				
C 02518		C	ED	3	4	08	25S	29E		593895	3556300*	2299	462				

Average Depth to Water: 60 feet

Minimum Depth: 60 feet

Maximum Depth: 60 feet

Record Count: 3

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 595430.2

Northing (Y): 3554588.21

Radius: 3000

*UTM location was derived from PLSS - see Help

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

7/20/20 3:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					
		(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng
	C 02371	2	3	15	25S	29E	
							X Y
							596741 3555106*

Driller License:	1259	Driller Company:	CAMPBELL DRILLING
Driller Name:	CAMPBELL, MICHAEL R.		

Drill Start Date:	01/12/1995	Drill Finish Date:	01/24/1995	Plug Date:	
Log File Date:	02/01/1995	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	20 GPM
Casing Size:	7.00	Depth Well:	200 feet	Depth Water:	60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	162	200	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	140	200

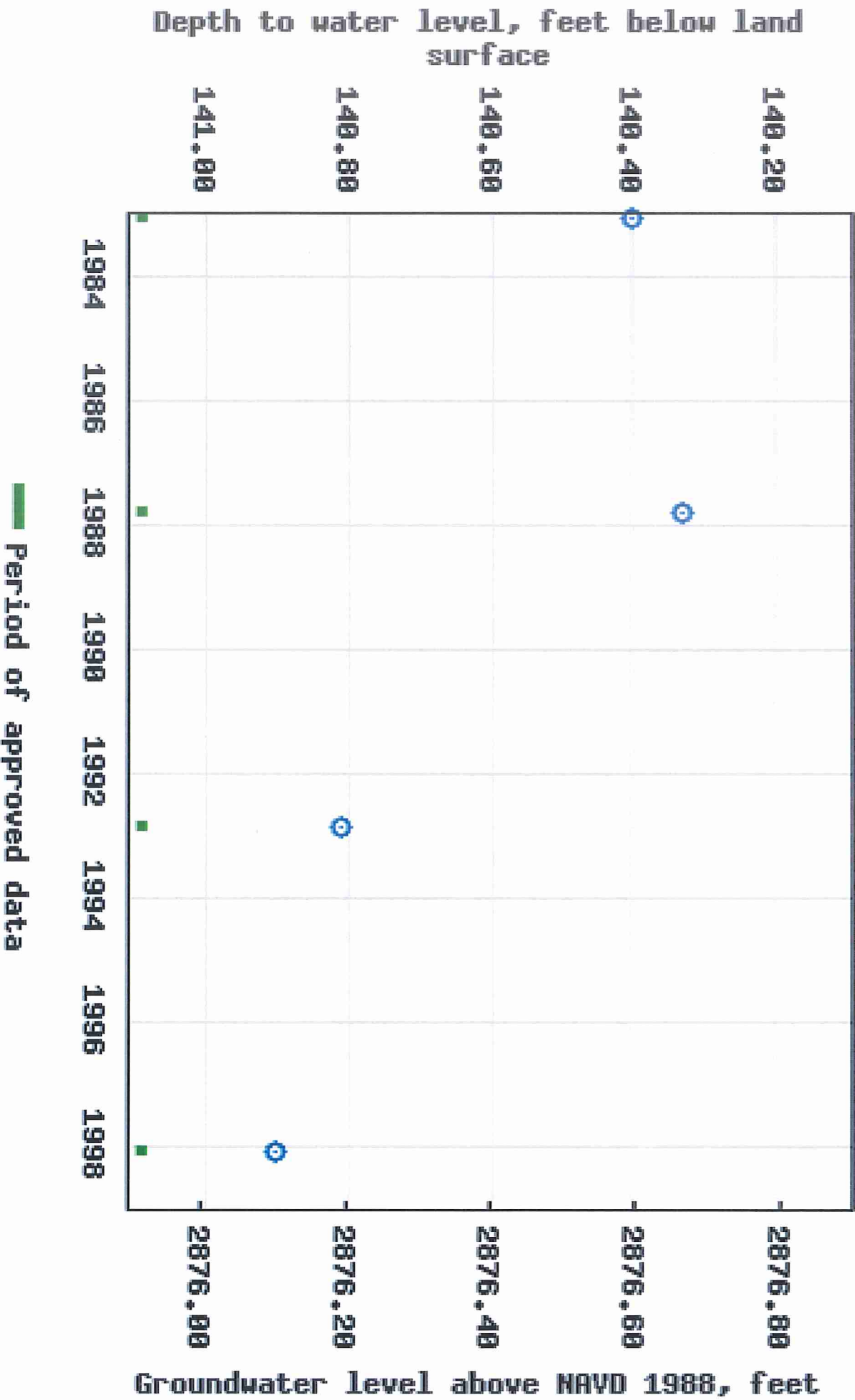
*UTM location was derived from PLSS - see Help

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

7/20/20 3:10 PM

POINT OF DIVERSION SUMMARY

USGS 320739103584201 255.29E.15.31134





APPENDIX III

C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1517443063

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production	Contact Dan Suniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575.390.5850
Facility Name Cooter 16 State Com 5H	Facility Type Oil

Surface Owner State	Mineral Owner State	API No. 30-015-37627
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LOCATION OF RELEASE

Unit Letter D	Section 16	Township 25S	Range 29E	Feet from the 30	North/South Line FNL	Feet from the 1190	East/West Line FWL	County Eddy
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Latitude: 32.110725 Longitude: 103.9877

NATURE OF RELEASE

Type of Release Spill Mixture of produced water & oil	Volume of Release 8 BBL	Volume Recovered 7 BBL
Source of Release A fire tube gasket on heater treater blown out.	Date and Hour of Occurrence 6/16/15 at 10:35 am	Date and Hour of Discovery 6/16/15 10:35 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos BLM Mike Bratcher OCD	
By Whom? Leonard Aguilar	Date and Hour 6/17/15 at 10:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 22 2015

RECEIVED

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 on heater treater blown out. Devon employee shut supply to the heater and 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 around the fire tube (upper left corner) of the gasket approximately 10" long had blown out causing the release of oil and water. The spill was limited to about 8bbl total 4 BBL of oil and 4 BBL of produced water. 2 BBL was in lined containment and 2 BBL recovered, no holes in lined containment. 6 BBL was spilled on pad a 10 X 20 area and 5 BBL was recovered. An environmental company will be called out to evaluate area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <u>Jeanette Barron</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Jeanette Barron</u>	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: <u>Field Admin Support</u>	Approval Date: <u>6/23/15</u>	Expiration Date: <u>NIA</u>
E-mail Address: <u>Jeanette.barron@dvn.com</u>	Conditions of Approval:	
Date: <u>6/19/15</u> Phone: <u>575.748.1813</u>	Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>7/24/15</u>	

Attached ☐

* Attach Additional Sheets If Necessary

2RP-3004

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	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 address			

Location of Release Source

Latitude 32.110725 Longitude -103.9877
(NAD 83 in decimal degrees to 5 decimal places)

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

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

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 7
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A fire tube gasket on the heater treater blew out. Devon personnel shut in supply to the heater treater and opened the drain to the water tank, and shut in the cottontail 16-1.
A compromised gasket blew out causing the release of oil and water.

Incident ID	NAB1517443063
District RP	2RP_3064
Facility ID	30-015-37627
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u>	Title: <u>Project Manager</u>
Signature: _____	Date: <u>12/15/20</u>
email: <u>Rpons@talonlpe.com</u>	Telephone: <u>575-441-0980</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	NAB1517443063
District RP	2RP-3064
Facility ID	30-015-37627
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?	60 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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

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

Printed Name: 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: _____

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

Remediation Plan

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

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

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

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

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

Printed Name: 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	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.*

- ☒ 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: _____

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: _____

District I
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District II
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District III
1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

ARTESIA DISTRICT

MAY 24 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED**Release Notification and Corrective Action**

DAB/614734572

OPERATOR☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137	Contact Leonard Aguilar, Assistant Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575.513.1930
Facility Name Cooter 16 State 5H	Facility Type Oil

Surface Owner State	Mineral Owner State	API No 30-015-37875
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LOCATION OF RELEASE

Unit Letter N	Section 16	Township 25S	Range 29S	Feet from the 330	North/South Line FNL	Feet from the 2310	East/West Line FEL	County Eddy
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Latitude: 32.1236382**Longitude:** -103.9883423**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 5BBLS	Volume Recovered 2BBLS
Source of Release Pinhole leak on steel pipe.	Date and Hour of Occurrence 5/19/2016 @ 7:00am	Date and Hour of Discovery 5/19/2016 @ 7:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Mike Bratcher	
By Whom? Leonard Aguilar, Assistant Production Foreman	Date and Hour OCD-5/20/2016 @ 7:00am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

5 BBLS of produced water was released. The release originated on a steel pipe on the inlet water line. The valve was shut off to prevent further release and isolate the leak. A repair clamp was installed.

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 true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Dana DeLaRosa	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Signed By: <i>[Signature]</i>	
Title: Production: Field Admin Support	Approved by Environmental Specialist:	
E-mail Address: dana.delarosa@dvn.com	Approval Date: 5/24/16	Expiration Date: N/A
Date: 5/23/2016 Phone: 575.746.5594	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 6/24/16

JRP-3713

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 address			

Location of Release Source

Latitude 32.1236382 Longitude -103.9877
(NAD 83 in decimal degrees to 5 decimal places)

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
N	16	25S	29S	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The release was caused by a pinhole leak on a steel pipe located on the inlet line. The valve was shut off to prevent further release and isolate the leak. A repair clamp was installed. The fluid flowed in a southwester direction with all fluid remaining on the pad area. A vac truck was utilized to recover approximately 2bbls of fluid.

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

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u>	Title: <u>Project Manager</u>
Signature: _____	Date: <u>12/15/20</u>
email: <u>Rpons@talonlpe.com</u>	Telephone: <u>575-441-0980</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	NAB1614734572
District RP	2RP-3712
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?	60 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Oil Conservation Division

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

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

Printed Name: Wes Mathews Title: EHS Professional

Signature: Wes Mathews Date: 12/18/20

email: Wes.mathews@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

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

Remediation Plan

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

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

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

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

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

Printed Name: 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	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.*

- ☒ 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@dv.com

Telephone: 575-748-2663

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: _____

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

JAN 11 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1701352947

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Matt Nettles, Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-513-5767
Facility Name	Cooter 16 State Com 5H	Facility Type	Oil

Surface Owner State	Mineral Owner State	API No	30-015-37875
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	16	25S	29E	330	South	2310	East	Eddy

Latitude: N 32.1236382

Longitude: W -103.9883423

NATURE OF RELEASE

Type of Release	Oil & Produced water	Volume of Release	28 BBLS Oil & 7 BBLS PW	Volume Recovered	28 BBLS Oil & 2 BBLS PW
Source of Release	Heater treater	Date and Hour of Occurrence	1/7/2017 @ 11:30am	Date and Hour of Discovery	1/7/2017 @ 11:30am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	OCD-Mike Bratcher		
By Whom?	Leonard Aguilar, Assistant Production Foreman	Date and Hour	1/7/2017 @ 5:00pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	N/A		

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

A gasket on the fire tube on the heater treater was corroded resulting in a release of 28 BBLS oil and 7 BBLS produced water from the heater treater. All wells producing into this facility were shut in and the heater was isolated to prevent further release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 28 BBLS oil and 7 BBLS produced water was released from heater treater into lined containment and onto the pad. 28 BBLS oil and 2 BBLS produced water released from the heater treater remained inside lined containment, the remaining 5 BBLS produced water was on the pad. None of the released fluid left location and all fluids remained on the pad. Liner was checked for holes, no holes were found in the liner. Vacuum truck recovered 28 BBLS oil and 2 BBLS produced water. An environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Sarah Gallegos-Troublefield	OIL CONSERVATION DIVISION	
Printed Name: Sarah Gallegos-Troublefield	Signed By <i>Mike Bratcher</i>	
Title: Field Admin Support	Approved by Environmental Specialist:	
E-mail Address: Sarah.Gallegos-Troublefield@dvn.com	Approval Date: 1/12/17	Expiration Date: N/A
Date: 1/10/2017 Phone: 575.748.1864	Conditions of Approval: See attached	Attached <input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

2RP-4074

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: N 32.1236382 Latitude NAD 8 Longitude: W -103.9883423

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 28
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Approximately 28 BBls 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; none 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.

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

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u>	Title: <u>Project Manager</u>
Signature: _____	Date: <u>12/15/20</u>
email: <u>Rpons@talonlpe.com</u>	Telephone: <u>575-441-0980</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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

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

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

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

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

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

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

Printed Name: 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: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: 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: 12/21/2020

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: Ashley Maxwell Date: 9/14/2022
 Printed Name: Ashley Maxwell Title: Environmental Specialist



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION



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



APPENDIX V

LABORATORY DATA



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

July 30, 2020

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

RE: Devon Cooter 16ST5H

OrderNo.: 2007C45

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2007C45

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 1

Project: Devon Cooter 16ST5H

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

Lab ID: 2007C45-001

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

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

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

Page 1 of 8

Analytical Report

Lab Order 2007C45

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 2

Project: Devon Cooter 16ST5H

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

Lab ID: 2007C45-002

Matrix: SOIL

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

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

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

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

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Analytical Report

Lab Order 2007C45

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 3

Project: Devon Cooter 16ST5H

Collection Date: 7/22/2020 10:30:00 AM

Lab ID: 2007C45-003

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

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

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

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Analytical Report

Lab Order 2007C45

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #5 Devon Cooter Comp 4

Project: Devon Cooter 16ST5H

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

Lab ID: 2007C45-004

Matrix: SOIL

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

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

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

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

Page 4 of 8

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

WO#: 2007C45

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST5H

Sample ID: MB-54013	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54013	RunNo: 70680								
Prep Date: 7/28/2020	Analysis Date: 7/28/2020	SeqNo: 2459573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54013	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54013	RunNo: 70680								
Prep Date: 7/28/2020	Analysis Date: 7/28/2020	SeqNo: 2459574	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Qualifiers:

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

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

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

WO#: 2007C45

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST5H

Sample ID: LCS-53977	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 53977		RunNo: 70650							
Prep Date: 7/27/2020	Analysis Date: 7/28/2020		SeqNo: 2458651		Units: mg/Kg					
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	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 53977		RunNo: 70650							
Prep Date: 7/27/2020	Analysis Date: 7/28/2020		SeqNo: 2458652		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		136	30.4	154			

Qualifiers:

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

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

Page 6 of 8

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

WO#: 2007C45

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST5H

Sample ID: mb-53942	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53942	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/25/2020	SeqNo: 2456612	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.9	66.6	105			

Sample ID: lcs-53942	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53942	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/25/2020	SeqNo: 2456613	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	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 Range								
Client ID: PBS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	SeqNo: 2456636	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.5	66.6	105			

Sample ID: lcs-53947	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	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
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2007C45

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST5H

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

Sample ID: LCS-53942	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53942	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/25/2020	SeqNo: 2456666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: mb-53947	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	SeqNo: 2456689	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: LCS-53947	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	SeqNo: 2456690	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2007C45

RcptNo: 1

Received By: Scott Anderson 7/24/2020 9:50:00 AM

Completed By: Juan Rojas 7/24/2020 10:21:07 AM

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? Courier

Log In

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

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by: CMC 7/24/20

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

QA/QC Package:

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

Project Manager:

Rebecca Pons

Sampler: Bill Riggs

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (Excluding CE): 29.0 = 2.7

Container Type and #

Preservative Type

HEAL No.

7007015

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

-013

-014

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-016

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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

July 30, 2020

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

RE: Devon Cooter 16ST3H

OrderNo.: 2007C46

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2007C46

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #3 Devon Cooter Comp 1

Project: Devon Cooter 16ST3H

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

Lab ID: 2007C46-001

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	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

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

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

Analytical Report

Lab Order 2007C46

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #3 Devon Cooter Comp 2

Project: Devon Cooter 16ST3H

Collection Date: 7/22/2020 11:15:00 AM

Lab ID: 2007C46-002

Matrix: SOIL

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

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

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

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

Analytical Report

Lab Order 2007C46

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #3 Devon Cooter Comp 3

Project: Devon Cooter 16ST3H

Collection Date: 7/22/2020 11:30:00 AM

Lab ID: 2007C46-003

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	160	60		mg/Kg	20	7/28/2020 8:39:31 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/26/2020 12:45:38 AM	53942
Surr: BFB	91.6	66.6-105		%Rec	1	7/26/2020 12:45:38 AM	53942
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/26/2020 12:45:38 AM	53942
Toluene	ND	0.050		mg/Kg	1	7/26/2020 12:45:38 AM	53942
Ethylbenzene	ND	0.050		mg/Kg	1	7/26/2020 12:45:38 AM	53942
Xylenes, Total	ND	0.099		mg/Kg	1	7/26/2020 12:45:38 AM	53942
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/26/2020 12:45:38 AM	53942

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

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

Page 3 of 8

Analytical Report

Lab Order 2007C46

Date Reported: 7/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: #3 Devon Cooter Comp 4

Project: Devon Cooter 16ST3H

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

Lab ID: 2007C46-004

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/28/2020 8:51:52 PM	54013
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2020 1:09:07 AM	53942
Surr: BFB	92.4	66.6-105		%Rec	1	7/26/2020 1:09:07 AM	53942
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/26/2020 1:09:07 AM	53942
Toluene	ND	0.049		mg/Kg	1	7/26/2020 1:09:07 AM	53942
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2020 1:09:07 AM	53942
Xylenes, Total	ND	0.098		mg/Kg	1	7/26/2020 1:09:07 AM	53942
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/26/2020 1:09:07 AM	53942

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

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

Page 4 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007C46

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST3H

Sample ID: MB-54013	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54013	RunNo: 70680								
Prep Date: 7/28/2020	Analysis Date: 7/28/2020	SeqNo: 2459573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54013	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54013	RunNo: 70680								
Prep Date: 7/28/2020	Analysis Date: 7/28/2020	SeqNo: 2459574	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Qualifiers:

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

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

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

WO#: 2007C46

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST3H

Sample ID: LCS-53977	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 53977		RunNo: 70650							
Prep Date: 7/27/2020	Analysis Date: 7/28/2020		SeqNo: 2458651		Units: mg/Kg					
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	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 53977		RunNo: 70650							
Prep Date: 7/27/2020	Analysis Date: 7/28/2020		SeqNo: 2458652		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		136	30.4	154			

Qualifiers:

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

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

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

WO#: 2007C46

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST3H

Sample ID: mb-53942	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53942	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/25/2020	SeqNo: 2456612		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.9	66.6	105			

Sample ID: lcs-53942	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53942	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/25/2020	SeqNo: 2456613		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	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 Range								
Client ID: PBS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	SeqNo: 2456636		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.5	66.6	105			

Sample ID: lcs-53947	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53947	RunNo: 70616								
Prep Date: 7/24/2020	Analysis Date: 7/26/2020	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
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 7 of 8

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

WO#: 2007C46

30-Jul-20

Client: Talon Artesia
Project: Devon Cooter 16ST3H

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

Sample ID: LCS-53942	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 53942		RunNo: 70616							
Prep Date: 7/24/2020	Analysis Date: 7/25/2020		SeqNo: 2456666		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: mb-53947	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 53947		RunNo: 70616							
Prep Date: 7/24/2020	Analysis Date: 7/26/2020		SeqNo: 2456689		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: LCS-53947	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 53947		RunNo: 70616							
Prep Date: 7/24/2020	Analysis Date: 7/26/2020		SeqNo: 2456690		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2007C46

RcptNo: 1

Received By: Scott Anderson

7/24/2020 9:50:00 AM

Completed By: Juan Rojas

7/24/2020 10:16:57 AM

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? Courier

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: One 7/24/20

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

QA/QC Package:

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

Turn-Around Time:

4 day

☒ Standard ☐ Rush

Project Name:

DEVON COOPER 165T3H

Project #:

700794, 351, 01

Project Manager:

Rebecca Pons

Sampler: Bill Riggs

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 29-0 = 29

Date Time Matrix Sample Name

7-22 11AM #3 DEVON COOPER Comp 1

7-22 11:15AM #3 DEVON COOPER Comp 2

7-22 11:30AM #3 DEVON COOPER Comp 3

7-22 11:45 #3 DEVON COOPER Comp 4

Container Type and #

1007C46

Preservative Type

Ice

HEAL No

7007C46

Date Time

7-22 11:45

Relinquished by:

Rebecca

Relinquished by:

Rebecca

Received by:

Rebecca

Via:

SPR

Date Time

7-22 9:50

Received by:

SPR

Via:

SPR

Date Time

7-22 9:50

Relinquished by:

Rebecca

Relinquished by:

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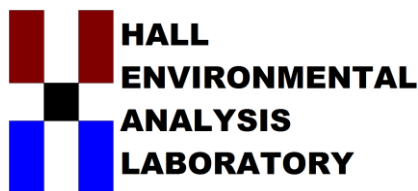
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Date Time

7-22 9:50

Relinquished by:

Rebecca



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

August 13, 2020

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

RE: Devon Cooter 5H-3H CTB

OrderNo.: 2008237

Dear Rebecca Pons:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1A

Project: Devon Cooter 5H-3H CTB

Collection Date: 8/4/2020 1:10:00 PM

Lab ID: 2008237-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	8/10/2020 5:10:36 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2020 2:27:56 PM	54224
Surr: BFB	99.8	75.3-105		%Rec	1	8/7/2020 2:27:56 PM	54224

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

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

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Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

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	200	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 RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/7/2020 3:38:27 PM	54224
Surr: BFB	96.4	75.3-105		%Rec	1	8/7/2020 3:38:27 PM	54224

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

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

Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3A

Project: Devon Cooter 5H-3H CTB

Collection Date: 8/4/2020 1:20:00 PM

Lab ID: 2008237-003

Matrix: SOIL

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

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

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Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4A

Project: Devon Cooter 5H-3H CTB

Collection Date: 8/4/2020 2:15:00 PM

Lab ID: 2008237-004

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
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							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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N-BG

Project: Devon Cooter 5H-3H CTB

Collection Date: 8/4/2020 12:40:00 PM

Lab ID: 2008237-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	8/10/2020 6:25:01 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE 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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2008237

Date Reported: 8/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: W-BG

Project: Devon Cooter 5H-3H CTB

Collection Date: 8/4/2020 12:30:00 PM

Lab ID: 2008237-006

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	61		mg/Kg	20	8/10/2020 6:37:25 PM	54292
EPA METHOD 8015M/D: DIESEL RANGE 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:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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

WO#: 2008237

13-Aug-20

Client: Talon Artesia**Project:** Devon Cooter 5H-3H CTB

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

Sample ID: LCS-54292	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 54292		RunNo: 70965							
Prep Date: 8/10/2020	Analysis Date: 8/10/2020		SeqNo: 2472351		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

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

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

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

WO#: 2008237

13-Aug-20

Client: Talon Artesia**Project:** Devon Cooter 5H-3H CTB

Sample ID: 2008237-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1A	Batch ID: 54229	RunNo: 70967								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2472593 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.26	0	104	47.4	136			
Surr: DNOP	5.4		4.926		110	30.4	154			

Sample ID: 2008237-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1A	Batch ID: 54229	RunNo: 70967								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2472594 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	49.75	0	87.3	47.4	136	16.3	43.4	
Surr: DNOP	4.2		4.975		85.2	30.4	154	0	0	

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

Sample ID: MB-54229	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54229	RunNo: 70967								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2472660 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	15		10.00		145	30.4	154			

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

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

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008237

13-Aug-20

Client: Talon Artesia

Project: Devon Cooter 5H-3H CTB

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

Qualifiers:

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

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

WO#: 2008237

13-Aug-20

Client: Talon Artesia**Project:** Devon Cooter 5H-3H CTB

Sample ID: 2008237-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1A	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470444	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range 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	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1A	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470445	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.32	0	95.4	61.3	114	10.5	20	
Surr: BFB	1000		972.8		107	75.3	105	0	0	S

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

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

Qualifiers:

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

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

Page 10 of 11

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

WO#: 2008237

13-Aug-20

Client: Talon Artesia**Project:** Devon Cooter 5H-3H CTB

Sample ID: 2008237-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2A	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470495	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.097	0.9709	0	114	78.1	153			
Benzene	0.97	0.024	0.9709	0	100	76.3	120			
Toluene	1.0	0.049	0.9709	0	104	78.5	120			
Ethylbenzene	1.0	0.049	0.9709	0	107	78.1	124			
Xylenes, Total	3.1	0.097	2.913	0	107	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		0.9709		109	80	120			

Sample ID: 2008237-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2A	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470496	Units: mg/Kg							
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	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470537	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: mb-54224	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54224	RunNo: 70921								
Prep Date: 8/6/2020	Analysis Date: 8/7/2020	SeqNo: 2470539	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2008237

RcptNo: 1

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

Completed By: Juan Rojas 8/6/2020 8:21:27 AM

Reviewed By: *JP* 8/6/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not Frozen
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or > 12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good				
2	2.1	Good				
3	-0.4	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

QA/QC Package:

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

Turn-Around Time:

☐ Standard ☐ Rush

Project Name:

Project #:

Project Manager:

Rebecca Pons

Sampler:

On Ice:

☒ Yes ☐ No

of Coolers:

Cooler Temp (including CE):

See checklist

Container

Type and #

Preservative

Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Turn-Around Time:

☐ Standard ☐ Rush

Project Name:

Project #:

Project Manager:

Rebecca Pons

Sampler:

On Ice:

☒ Yes ☐ No

of Coolers:

Cooler Temp (including CE):

See checklist

Container

Type and #

Preservative

Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

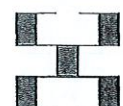
Time

Matrix

Sample Name

Date

Time

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

G, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks: Please cc the following via email:

Dadkins@talonlpe.com

Rpons@talonlpe.com

Bsinclair@talonlpe.com

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



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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SIA S.SW 2'

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

Collection Date: 8/24/2020 1:00:00 PM

Lab ID: 2008D73-001

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/27/2020 5:57:02 PM	54709
Surr: BFB	102	70-130		%Rec	1	8/27/2020 5:57:02 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SIA 2'

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

Collection Date: 8/24/2020 1:05:00 PM

Lab ID: 2008D73-002

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/27/2020 7:23:03 PM	54709
Surr: BFB	104	70-130		%Rec	1	8/27/2020 7:23:03 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/27/2020 12:43:46 PM	54712
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/27/2020 12:43:46 PM	54712
Surr: DNOP	74.2	30.4-154		%Rec	1	8/27/2020 12:43:46 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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SIA N.SW 2'

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

Collection Date: 8/24/2020 1:10:00 PM

Lab ID: 2008D73-003

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/27/2020 8:48:53 PM	54709
Surr: BFB	105	70-130		%Rec	1	8/27/2020 8:48:53 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	8/27/2020 12:53:34 PM	54712
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/27/2020 12:53:34 PM	54712
Surr: DNOP	82.4	30.4-154		%Rec	1	8/27/2020 12:53:34 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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S2A W.SW 2'

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

Collection Date: 8/24/2020 1:15:00 PM

Lab ID: 2008D73-004

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: 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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S4A NSW 2'

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

Collection Date: 8/24/2020 2:10:00 PM

Lab ID: 2008D73-005

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	8/30/2020 9:22:23 PM	54785
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/27/2020 9:17:27 PM	54709
Surr: BFB	102	70-130		%Rec	1	8/27/2020 9:17:27 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/27/2020 1:03:23 PM	54712
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/27/2020 1:03:23 PM	54712
Surr: DNOP	82.7	30.4-154		%Rec	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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S4A ESW 2'

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

Collection Date: 8/24/2020 2:15:00 PM

Lab ID: 2008D73-006

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

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

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

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

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S4A SSW 2'

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

Collection Date: 8/24/2020 2:20:00 PM

Lab ID: 2008D73-007

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	80	60		mg/Kg	20	8/30/2020 10:14:33 AM	54786
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/27/2020 10:14:31 PM	54709
Surr: BFB	104	70-130		%Rec	1	8/27/2020 10:14:31 PM	54709
EPA METHOD 8015M/D: DIESEL RANGE 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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: WBG 0'

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

Collection Date: 8/24/2020 2:30:00 PM

Lab ID: 2008D73-008

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

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

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

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

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Analytical Report

Lab Order 2008D73

Date Reported: 9/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: NBG 0'

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

Collection Date: 8/24/2020 2:35:00 PM

Lab ID: 2008D73-009

Matrix: SOIL

Received Date: 8/26/2020 8:00:00 AM

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

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

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

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

WO#: 2008D73

01-Sep-20

Client: Talon Artesia
Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: MB-54785	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54785	RunNo: 71487								
Prep Date: 8/30/2020	Analysis Date: 8/30/2020	SeqNo: 2496349	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54785	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54785	RunNo: 71487								
Prep Date: 8/30/2020	Analysis Date: 8/30/2020	SeqNo: 2496350	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID: MB-54786	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54786	RunNo: 71489								
Prep Date: 8/30/2020	Analysis Date: 8/30/2020	SeqNo: 2496475	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54786	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54786	RunNo: 71489								
Prep Date: 8/30/2020	Analysis Date: 8/30/2020	SeqNo: 2496476	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

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

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

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

WO#: 2008D73

01-Sep-20

Client: Talon Artesia
Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: LCS-54694	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 54694			RunNo: 71442						
Prep Date: 8/26/2020	Analysis Date: 8/27/2020			SeqNo: 2494270		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.5	30.4	154			

Sample ID: LCS-54712	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 54712			RunNo: 71442						
Prep Date: 8/26/2020	Analysis Date: 8/27/2020			SeqNo: 2494271		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	77.1	70	130			
Surr: DNOP	4.8		5.000		96.5	30.4	154			

Sample ID: MB-54694	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 54694			RunNo: 71442						
Prep Date: 8/26/2020	Analysis Date: 8/27/2020			SeqNo: 2494272		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.5		10.00		75.1	30.4	154			

Sample ID: MB-54712	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 54712			RunNo: 71442						
Prep Date: 8/26/2020	Analysis Date: 8/27/2020			SeqNo: 2494273		Units: 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
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2008D73

01-Sep-20

Client: Talon Artesia
Project: Devon Cooter 16st 3H (Cooter 3H)

Sample ID: mb-54709	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54709	RunNo: 71441								
Prep Date: 8/26/2020	Analysis Date: 8/27/2020	SeqNo: 2494201			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	540		500.0		107	70	130			

Sample ID: lcs-54709	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54709	RunNo: 71441								
Prep Date: 8/26/2020	Analysis Date: 8/27/2020	SeqNo: 2494202			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	70	130			
Surr: BFB	510		500.0		102	70	130			

Sample ID: 2008d73-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SIA S.SW 2'	Batch ID: 54709	RunNo: 71441								
Prep Date: 8/26/2020	Analysis Date: 8/27/2020	SeqNo: 2494204			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.13	2.344	91.6	49.2	122			
Surr: BFB	520		482.6		108	70	130			

Sample ID: 2008d73-001amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SIA S.SW 2'	Batch ID: 54709	RunNo: 71441								
Prep Date: 8/26/2020	Analysis Date: 8/27/2020	SeqNo: 2494205			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.37	2.344	87.9	49.2	122	2.85	20	
Surr: BFB	510		487.3		106	70	130	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2008D73

RcptNo: 1

Received By: Cheyenne Cason 8/26/2020 8:00:00 AM

Completed By: Juan Rojas 8/26/2020 8:34:29 AM

Reviewed By: Em 8/26/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by CRC 8/26/20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good				
2	5.4	Good				
3	2.2	Good				
4	0.3	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

QA/QC Package:

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

Project Manager:

Rebecca Pons

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temperature: 52° Pending

Date Time Matrix Sample Name

8/24/20 1:00 Soil S1A SSW 2'

1:05 S1A 2'

1:10 S1A N5W 2'

1:15 S2A WSW 2'

2:10 S4A N5W 2'

2:15 S4A ESW 2'

2:20 S4A SSW 2'

2:30 WBG 0'

2:35 NBG 0'

Date Time Relinquished by:

8/25/20 12:00 [Signature]

Date Time Relinquished by:

8/27/20 19:00 [Signature]

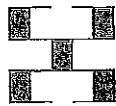
Turn-Around Time: 4-day

☒ Standard ☐ Rush

Project Name: Devon Cooler 16st 3H

(Cooler 3H)

Project #: 700 A4.351.01


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Total Coliform (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)

CF, Br, NO₃, NO₂, PO₄, SO₄

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

EDR (Method 504.1)

8081 Pesticides/8082 PCBs

TPH: 8015D (GRO / DRO / MRO)

BTX / MTBE / TMBs (8021)

✓

✓

✓

✓

✓

✓

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✓

✓

✓

✓

Remarks: Please cc the following via email:

Dadkins@talonlpe.com 811 Devon Direct

Rpons@talonlpe.com w/o# 208 09260

Bsinclair@talonlpe.com 04-0150.3

5.3-0.15 5.2 5.6-0.12 5.4 7.3-0.12 2.2

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 12826

CONDITIONS

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

CONDITIONS

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