Page 6

Oil Conservation Division

Incident ID	nAB1914252088
District RP	2RP-5435
Facility ID	
Application ID	

Page 1 of 161

# Closure

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

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

 $\mathbf{x}$  A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X 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

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

 $\mathbf{x}$  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: Dale Woodall	Title:	
Signatur <u>e</u> : Dale Woodall	Date: <u>5/10/2023</u>	
email:dale.woodall@dvn.com	Telephone:405-318-4697	
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:	

Page 6

Oil Conservation Division

Incident ID	nAB1914252088
District RP	2RP-5435
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Page 2 of 161

# Closure

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Printed Name:	Title:EHS Professional
Signature: Dals Woodall	Date: <u>5/10/2023</u>
email:dale.woodall@dvn.com	Telephone: 405-318-4697
OCD Only	
Received by: Robert Hamlet	Date: <u>10/2/2023</u>
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible l/or regulations.
Closure Approved by: <u><i>Robert Hamlet</i></u>	Date: <u>10/2/2023</u>
Printed Name Robert Hamlet	Title: Environmental Specialist - Advanced



August 19, 2019

Vertex Project #: 19E-00575-016

 Spill Closure Report:
 Apache 25 Federal #003 (Unit Letter "A", Section 25, Township 22 South, Range 30 East)

 API: 30-015-32719
 County: Eddy

 Incident Report: 2RP-5435
 Incident Report: 2RP-5435

 Prepared For:
 Devon Energy Corporation

 6488 Seven Rivers Highway
 Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 – Artesia 811 South First Street Artesia, New Mexico 88210

Devon Energy Corporation retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a produced water and crude oil release caused by a mechanical malfunction on Apache 25 Federal #003, API 30-015-32719, Incident 2RP-5435 (hereafter referred to as "site"). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.3684883, W -103.8266678.

#### Background

The site is located approximately 30 miles east of Carlsbad, New Mexico on Bureau of Land Management (BLM) property. The legal description for the site is Unit Letter "A", Section 25, Township 22 South, Range 30 East in Eddy County, New Mexico. An aerial photograph and site schematic are included in Attachment 1.

*The Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2014 – 2017) indicates the site's surface geology is comprised primarily of Qep—Eolian and piedmont deposits (Holocene to middle Pleistocene), and is characterized as interlayed eolian sands and piedmont-slope deposits. Predominant soil texture on the site is fine sand over a sandy clay loam and the area tends to be well-drained with low runoff.

#### **Incident Description**

The spill occurred on May 9, 2019, due to a test heater releasing fluid from the vic clamp. Approximately 3.83 barrels (bbls) of produced water and 3.83 bbls of crude oil were released into unlined containment and off-pad. Approximately 3 bbls of free fluid were removed during initial spill clean-up. The incident was reported on May 14, 2019 to the New Mexico Oil Conservation Division (NM OCD) and the incident received RP number 2RP-5435. The initial C-141 Notification Report is included in Attachment 2. Daily Field Reports (DFRs) and site photographs are included in Attachment 3.

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#### **Closure Criteria Determination**

Depth to groundwater was determined using information from Oil and Gas Drilling records and the New Mexico Office of the State Engineer Water Column/Average Depth to Water report. A 5,000-meter search radius was used to determine groundwater depth. The shallowest recorded depth to groundwater was determined to be 413 feet below ground surface (bgs) at 2,014 feet from the site. Documentation used in Closure Criteria Determination research is included in Attachment 4.

able 1.				
	e: Apache 25 Federal 003 Battery	X: 32.36850	Y: -103.82670	
Spill Coordinates: Site Specific Conditions		X. 32.30830 Value	Y: -103.82670	
1	Depth to Groundwater	413	feet	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3311	feet	
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6345	feet	
4	Within 300 feet from an occupied residence, school, hospital, institution or church	13, 376	feet	
5	<ul> <li>i) Within 500 feet of a spring or a private, domestic</li> <li>fresh water well used by less than five households for</li> <li>domestic or stock watering purposes, or</li> </ul>	2014	feet	
	ii) Within 1000 feet of any fresh water well or spring	2014	feet	
Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27- 3 NMSA 1978 as amended, unless the municipality specifically approves		No	(Y/N)	
7	Within 300 feet of a wetland	26800	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
9 Within an unstable area (Karst Map)		Low	Critical High Medium Low	
10	Within a 100-year Floodplain	500	year	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	

The closure criteria determined for the site are associated with the following constituent concentration limits as identified in 19.15.29.12 New Mexico Administrative Code (NMAC) and presented in Table 2.

#### 2019 Spill Assessment and Closure August 2019

Table 2. Closure Criteria for Soils Impacted byMinimum depth below any point within the horizontalboundary of the release to groundwater less than		
10,000 mg/l TDS	Constituent	Limit
	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
> 100 feet	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

#### **Remedial Actions Taken**

An initial site inspection of the release area, completed on June 20, 2019, identified the area of the spill specified in the initial C-141 Report, estimated the approximate volume of the spill and white lined the area required for the 811 One Call request. The largest impacted area was determined to be approximately 143 feet long and 101 feet wide; the total affected area was determined to be 6,033 square feet. The DFR associated with the site inspection is included in Attachment 3.

Remediation efforts began on July 8 and were completed on July 24, 2019. Vertex personnel supervised the excavation of impacted soils and field screening, consisting of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Quantabs (chlorides), was completed on a total of 19 samples. Field screening results were used to differentiate areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed at depths up to 3.5 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Waste Manifests are presented in Attachment 5. Field screening results are presented in Attachment 6, as well as in DFRs in Attachment 3.

Notification that confirmatory samples were being collected was provided to the NMOCD on July 8, 2019 (Attachment 7). Confirmatory five-point composite samples were collected from the base and walls of the excavation such that no composite sample was representative of more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC. A total of nineteen (19) samples, including two (2) background samples, were collected for laboratory analysis following NM OCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed using Method 300.0/9056A for chlorides, Method 8021B for volatile organics, including Benzene, Toluene, Ethyl benzene and Xylene (BTEX), and EPA Method 8015D for total petroleum hydrocarbons (TPH), including Motor Oil Range Organics (MRO), Diesel Range Organics (DRO), and Gasoline Range Organics (GRO). Laboratory results are presented in Table 3, Attachment 6 and the complete laboratory data report and chain of custody documentation can be found in Attachment 8. All confirmatory samples collected and analyzed were below closure criteria for the site.

#### **Closure Request**

The spill area was fully delineated, remediated and backfilled with local soils by July 24, 2019. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per Table I of 19.15.29.12 NMAC – Closure Criteria for Soils Impacted by a Release for locations greater than 100 feet to groundwater. Based on these

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**Devon Energy Corporation** Apache 25 Federal #003, 2RP-5435

findings, Devon Energy Corporation requests that this release incident be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.1137 or dwilliams@vertex.ca.

Sincerely,

Dennis Williams ENVIRONMENTAL EARTHWORKS ADVISOR

#### Attachments

- Attachment 1. Site Schematic
- Attachment 2. NM OCD C-141 Report
- Attachment 3. Daily Field Report(s) with Pictures
- Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 5. Waste Manifest(s)
- Attachment 6. Table 3 Laboratory Results Table
- Attachment 7. Confirmatory Samples and Liner Inspection Notification to the NM OCD
- Attachment 8. Laboratory Data Reports and COCs

#### Devon Energy Corporation Apache 25 Federal #003, 2RP-5435

#### References

- Water Column/Average Depth to Water Report. New Mexico Water Rights Reporting System, (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- Assessed and Impaired Waters of New Mexico. New Mexico Department of Surface Water Quality Bureau, (2019). Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- Interactive Geologic Map. New Mexico Bureau of Geology and Mineral Resources, (2019). Retrieved from http://geoinfo.nmt.edu
- Measured Distance from the Subject Site to Residence. Google Earth Pro, (2019). Retrieved from https://earth.google.com
- Point of Diversion Location Report. New Mexico Water Rights Reporting System, (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- Measured Distance from the Subject Site to Municipal Boundaries. Google Earth Pro, (2019). Retrieved from https://earth.google.com
- National Wetland Inventory Surface Waters and Wetland. United State Fish and Wildlife Service, (2019). Retrieved from https://www.fws.gov/wetlands/data/mapper.html
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- New Mexico Cave/Karsts. United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
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- *Well Log/Meter Information Report.* NM Office of the State Engineer, New Mexico Water Rights Reporting System. (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- Natural Resources and Wildlife Oil and Gas Releases. New Mexico Oil Conservation Division, (2019). Santa Fe, New Mexico.
- Soil Survey, New Mexico. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from http://www.wipp.energy.gov/library/Information\_Repository\_A/Supplemental\_Information/Chugg%20et%2

0al%201971%20w-map.pdf

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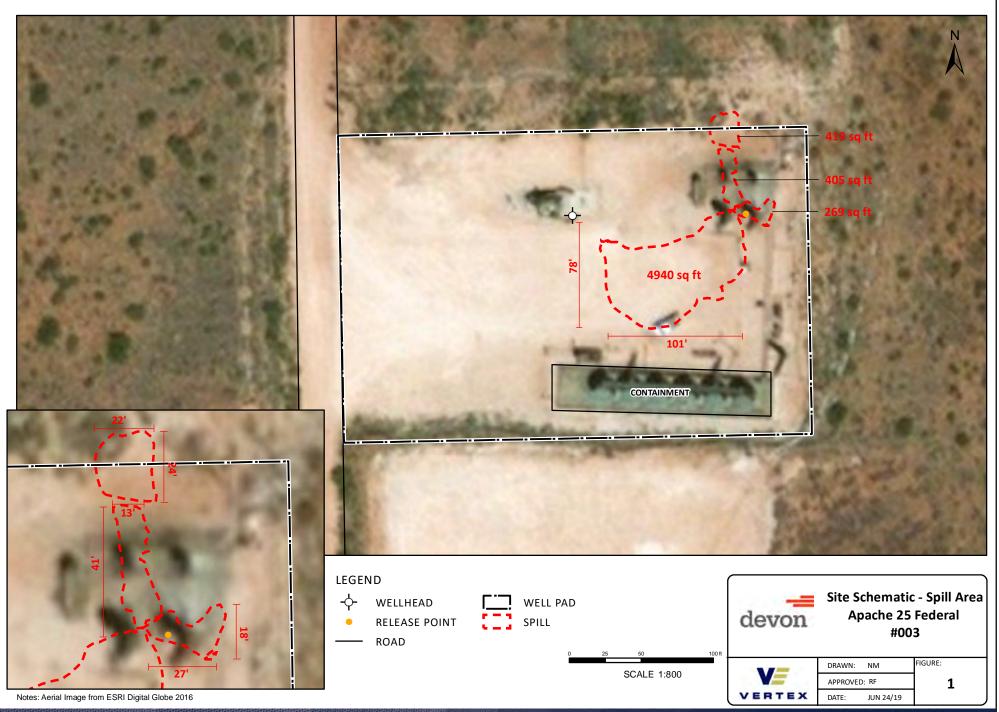
#### Limitations

This report has been prepared for the sole benefit of Devon Energy Corporation. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Corporation. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

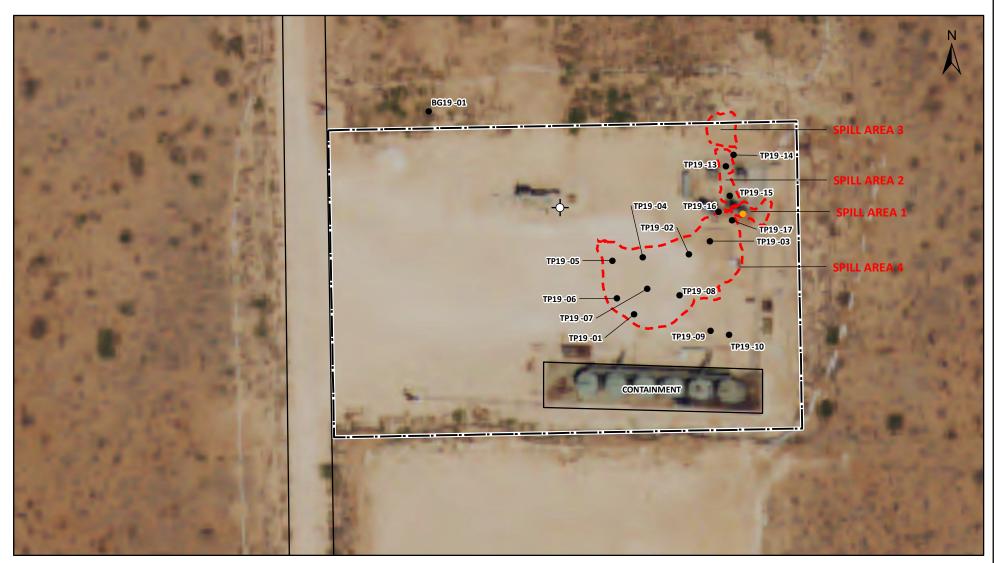
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#### **ATTACHMENT 1**



Released to Imaging: 10/2/2023 2:38:56 PM







Released to Imaging: 10/2/2023 2:38:56 PM

#### **ATTACHMENT 2**

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

)

Page 13 of 161

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

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

Longitude

Latitude		

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	· ·	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If VES was immediate a	tion given to the OCD2 Dy whom? To whom? When and hy whot means (nhone amoil ato)?
II I ES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

#### **Initial Response**

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

The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:	Title:
Signature: Kendra DeHoyos	Date:
email:	Telephone:
OCD Only Received by:	Date:

Page 2

Page 6

Oil Conservation Division

	Page 15 of 16.
Incident ID	nAB1914252088
District RP	2RP-5435
Facility ID	
Application ID	

# Closure

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 $\overline{X}$  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

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

 $\mathbf{x}$  Description of remediation activities

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\_\_\_\_ \_

Printed Name: Dale Woodall	Title:
Signatur <u>e</u> : Dale Woodall	Date: <u>5/10/2023</u>
email:dale.woodall@dvn.com	Telephone:405-318-4697
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

#### **ATTACHMENT 3**



Client:	Devon Energy Corporation	Inspection Date:	6/20/2019
Site Location Name:	Apache 5 Fed #003	Report Run Date:	6/20/2019 6:50 PM
Project Owner:	Amanda Davis	- File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	
Client Contact Name:	Amanda Davis	- Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	-	
		Summary of	Times
Left Office	6/20/2019 7:15 AM		
Arrived at Site	6/20/2019 8:19 AM		
Departed Site	6/20/2019 10:33 AM		
Returned to Office	6/20/2019 12:40 PM		

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# **Site Sketch** Client Sheet of AN 76 4 0 Wellhord Prosticola 0 H H Tanks - Test Heater Release Point - Spill Area -Flow Mas (Multiple)

Run on 6/20/2019 6:50 PM UTC



Page 19 of 161

#### **Summary of Daily Operations**

**8:35** Arrive on site and complete all safety paperwork and arrival form.

**Next Steps & Recommendations** 

1 Complete research.

2 Get maps created.

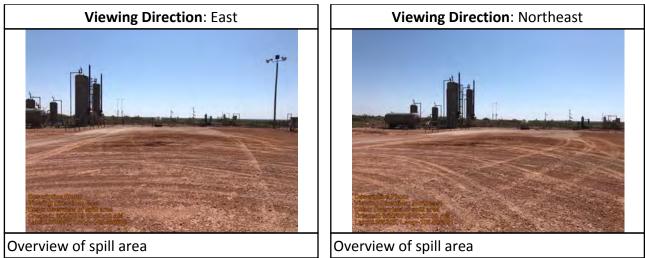
**3** Write work plan.

- 4 Complete cleanup and sampling.
- 5 Write closure report for client and NMOCD
- 6 Close file.











**Daily Site Visit Signature** 

Inspector: Robyn Fisher

Signature:

•



Client:	Devon Energy Corporation	Inspection Date:	7/8/2019
Site Location Name:	Apache 5 Fed #003	Report Run Date:	7/8/2019 7:14 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams		
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/8/2019 7:15 AM		
Arrived at Site	7/8/2019 8:05 AM		
Departed Site	7/8/2019 11:32 AM		
Returned to Office	7/8/2019 12:41 PM		

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VERTEX

# **Site Sketch** Date July 8, 2019 Project Apache 25 Fed 3 TEX Devon Sheet Client ×B619-01 6 O RELEASE PUMP Well SPILL TANKS Y X

Run on 7/8/2019 7:14 PM UTC



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#### Summary of Daily Operations

8:05 Arrive on site.

Complete safety paperwork. Take background samples and field screen. Complete DFR.

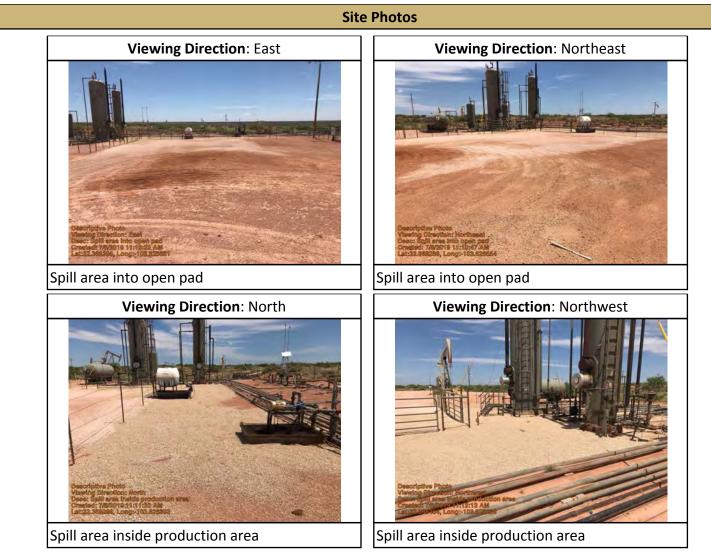
Return to office.

#### **Next Steps & Recommendations**

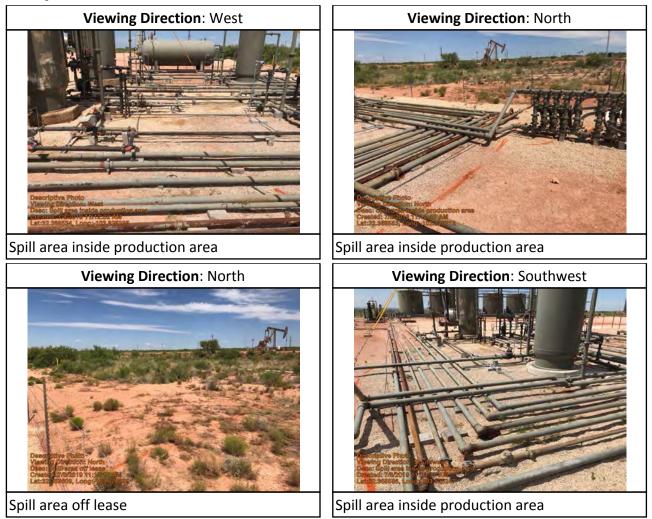
- **1** Begin excavation of spill
- 2 Field screen
- **3** Send samples to lab
- 4 Confirm results meet site criteria
- 5 Backfill

Sampling								
19-01								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	1.1 ppm	47 ppm	Low (30-600 ppm)	42 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36868973, - 103.82698189	Yes
2 ft.	0.6 ppm	48 ppm	Low (30-600 ppm)	241 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36868973, - 103.82698189	Yes

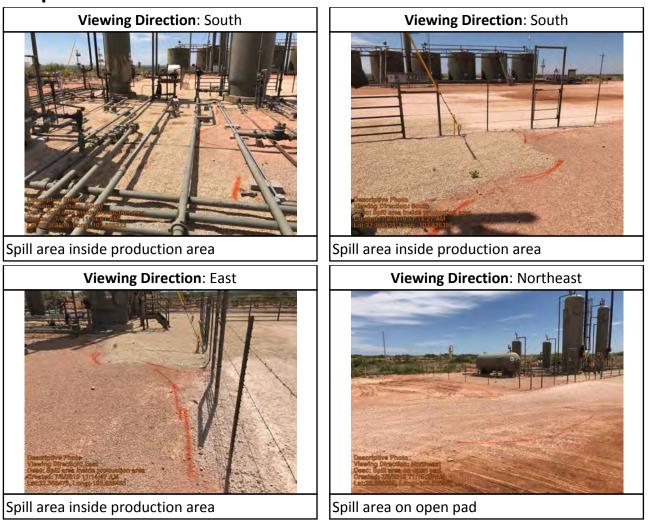




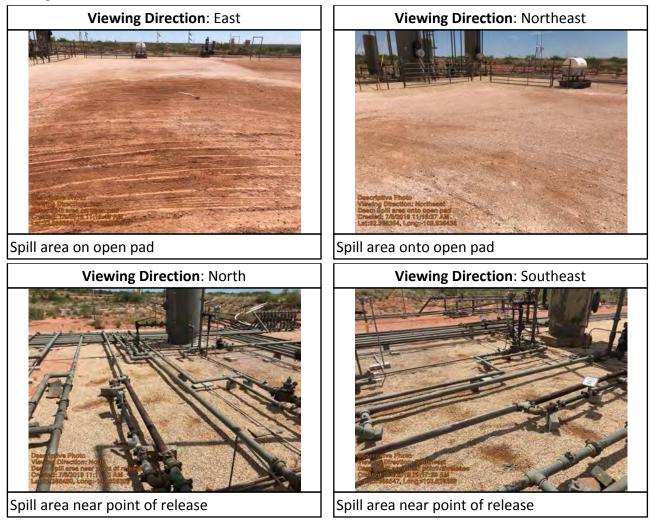






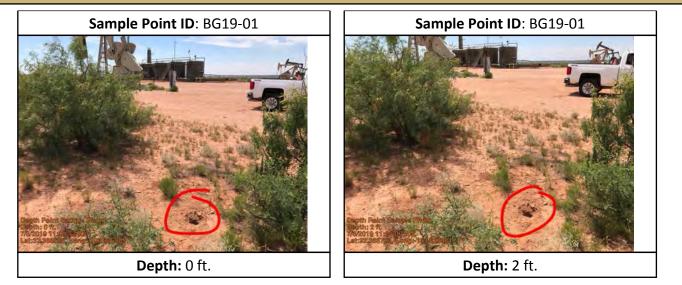








#### **Depth Sample Photos**





#### **Daily Site Visit Signature**

Inspector: Austin Harris

ME

Signature:

Run on 7/8/2019 7:14 PM UTC

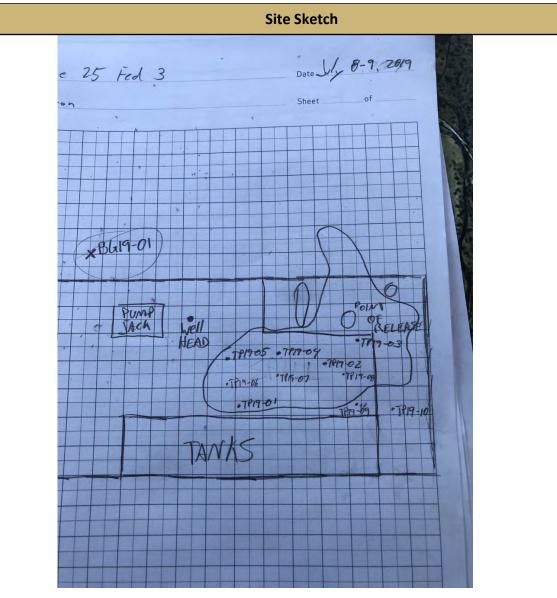
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Client:	Devon Energy Corporation	Inspection Date:	7/9/2019
Site Location Name:	Apache 5 Fed #003	Report Run Date:	7/10/2019 1:08 AM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams		
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/9/2019 7:00 AM		
Arrived at Site	7/9/2019 7:45 AM		
Departed Site	7/9/2019 5:40 PM		
Returned to Office	7/9/2019 6:30 PM		

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VERTEX



Run on 7/10/2019 1:08 AM UTC



				Summary of D	aily Operations			
:49 Arrive o	on site.							
Comple	ete safety pa	aperwork.						
Excavat	te spill area.							
Field sc	reen.							
Jar sam	ples meetin	ng site criteria.						
Comple	ete DFR.							
Return	to office.							
				Novt Stone 9	acommondations			
				Next Steps & r	ecommendations			
1								
				Sam	pling			
9-01								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	2.8 ppm	31 ppm	Low (30-600 ppm)	277 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36829821, - 103.82652498	Yes
9-02			-			-		-
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	41.6 ppm	109 ppm	Low (30-600 ppm)	59 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36841200, - 103.82640075	Yes
			1		, ,			

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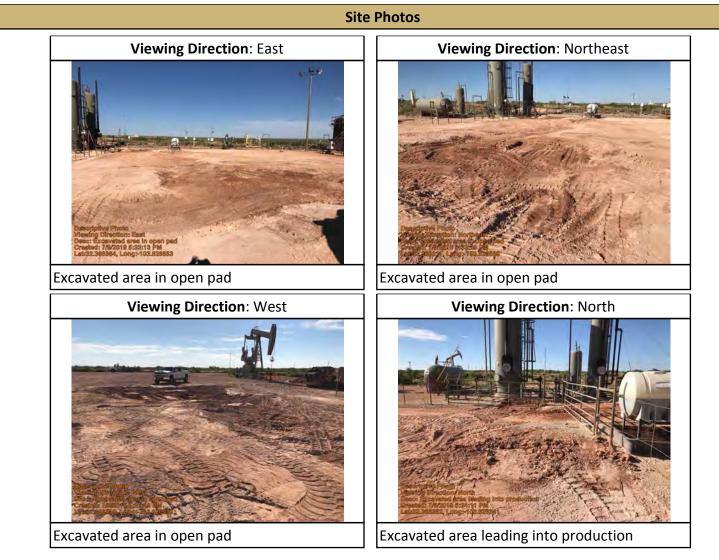
VE

, , , , , , , , , , , , , , , , , , , ,								VERTEX
9-03								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	45.3 ppm	1119 ppm	Low (30-600 ppm)	296 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36843662, - 103.82635249	Yes
9-04								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	46.5 ppm	37 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36840684, - 103.82650431	Yes
9-05								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	2.3 ppm	27 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36840092, - 103.82657226	Yes
9-06								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	9.6 ppm	6820 ppm	Low (30-600 ppm)	59 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36832924, - 103.82656311	Yes

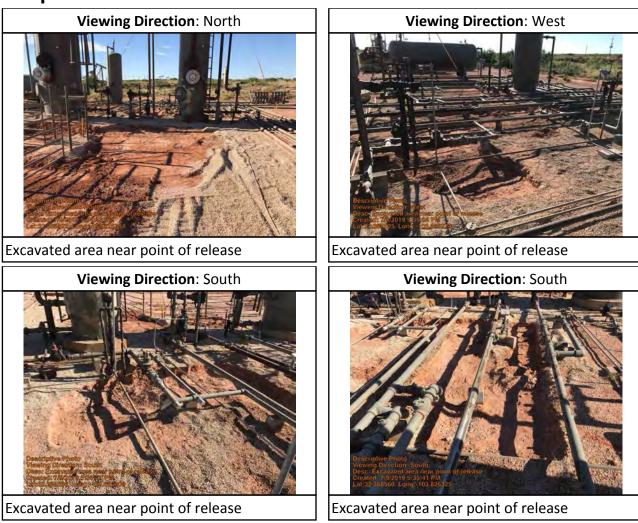
V=

lly Site	VISIT Re	port						VERTEX
9-07								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
0.5 ft.	76.1 ppm	2220 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36834683, - 103.82649486	Yes
9-08								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
0.5 ft.	402.3 ppm	8360 ppm	Low (30-600 ppm)	193 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36833343, - 103.82642194	Yes
9-09				•	•			
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
0.5 ft.	4.8 ppm	111 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36826566, - 103.82635354	Yes
9-10								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
0.5 ft.	0.3 ppm	33 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36825708, - 103.82631147	Yes

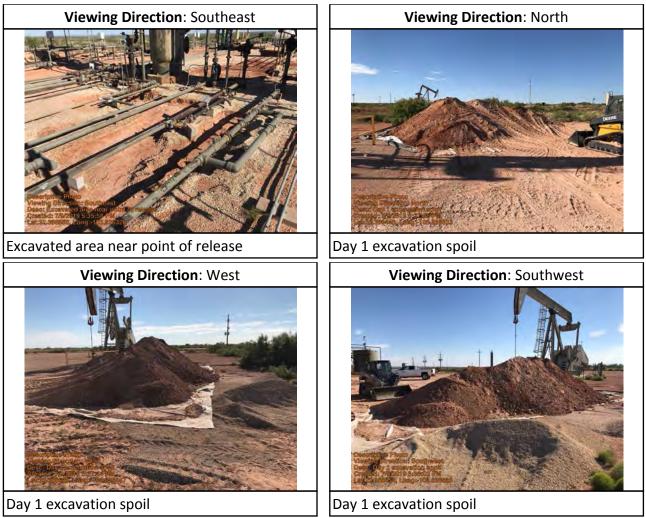






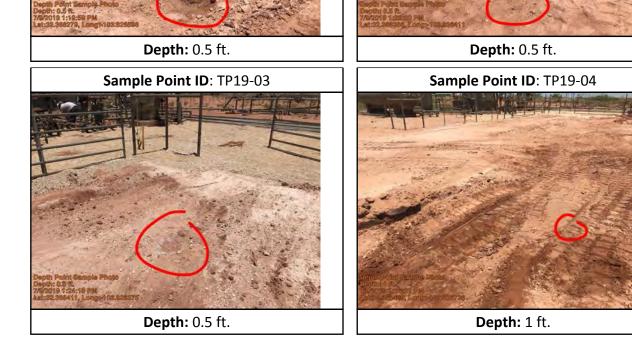






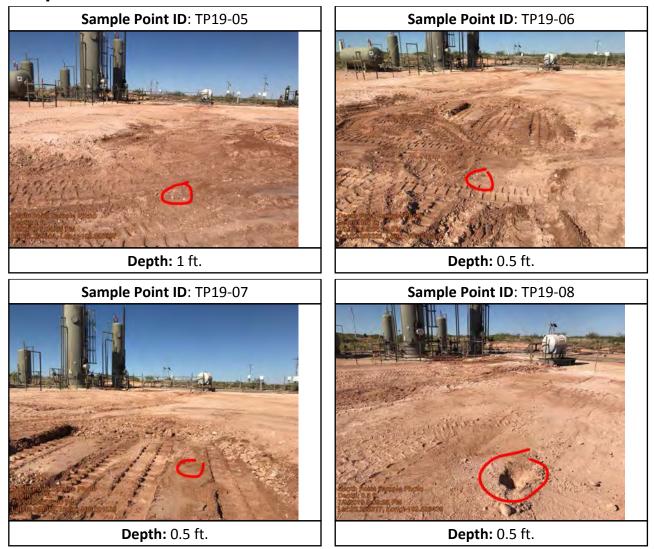


# Depth Sample Photos Sample Point ID: TP19-01 Sample Point ID: TP19-02 Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image:

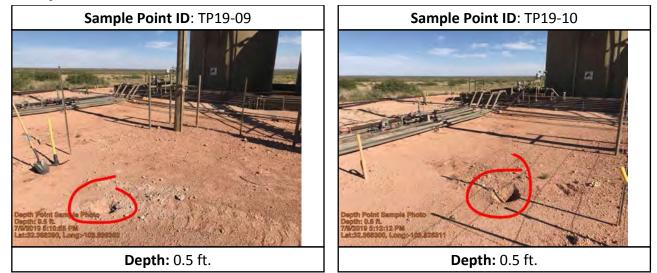


Run on 7/10/2019 1:08 AM UTC











**Daily Site Visit Signature** 

Inspector: Austin Harris

At Signature:

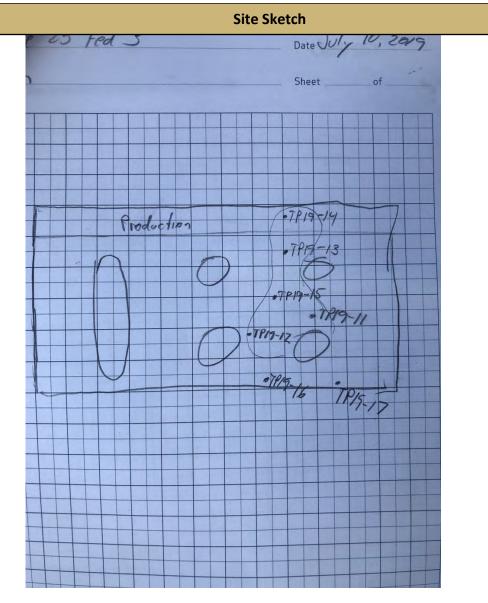
## VERTEX

<b>Daily Site Vi</b>	sit Report
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Client:	Devon Energy Corporation	Inspection Date:	7/10/2019
Site Location Name:	Apache 5 Fed #003	Report Run Date:	7/11/2019 12:55 AM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/10/2019 6:30 AM		
Arrived at Site	7/10/2019 7:15 AM		
Departed Site	7/10/2019 5:45 PM		
Returned to Office	7/10/2019 6:48 PM		

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VERTEX



Run on 7/11/2019 12:55 AM UTC

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Page 46 of 161

#### Summary of Daily Operations

7:15 Arrive on site.

Complete safety paperwork.

Continue excavation and field screening samples.

Complete DFR.

Return to office.

#### Next Steps & Recommendations

1

	Sampling								
TP19	<del>9</del> -06								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	5.3 ppm	46 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	<	32.36832924, - 103.82656311	Yes
TP19	P19-07								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	8.2 ppm	10 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36834683, - 103.82649486	Yes
TP19	<del>9</del> -08		<u>.</u>						
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	13.4 ppm	78 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36833343, - 103.82642194	Yes

Run on 7/11/2019 12:55 AM UTC

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VERTEX

## **Daily Site Visit Report**

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	997.7 ppm	8860 ppm	Low (30-600 ppm)	30 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36851436, - 103.82629179	Yes
1 ft.	560.4 ppm	4940 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36851436, - 103.82629179	Yes
2 ft.	329.1 ppm	1040 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36851436, - 103.82629179	Yes
·12	<u> </u>		-					
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	7.1 ppm	39 ppm	Low (30-600 ppm)	0.1 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36851582, - 103.82633580	Yes
-13								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0.5 ft.	184.3 ppm	5000 ppm	Low (30-600 ppm)	229 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36857912, - 103.82631449	Yes
1 ft.	184.3 ppm	5000 ppm	Low (30-600 ppm)	229 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846	$\checkmark$	32.36857912, - 103.82631449	Yes

Run on 7/11/2019 12:55 AM UTC

TP19-14

Depth ft

## **Daily Site Visit Report**

**VOC PID** 

Petro Flag

TPH ppm

Quantab

Range ppm

			VERTEX
Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36860007, - 103.82629703	Yes
Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
DTEV (EDA CIA/ 040 Mathad			ĺ

	0.5 ft.	155 ppm	6480 ppm	Low (30-600 ppm)	86 ppm	8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36860007, - 103.82629703	Yes
TP19	9-15	·	-	-					-
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0.5 ft.	1341.4 ppm	4610 ppm	Low (30-600 ppm)	30 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36852384, - 103.82630741	Yes
TP19	9-16	-							
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	9.3 ppm	15 ppm	Low (30-600 ppm)	86 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36849180, - 103.82633264	Yes
TP19	9-17			•					
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	1.5 ppm	0 ppm	Low (30-600 ppm)	86 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36847538, - 103.82630215	Yes

Quantab

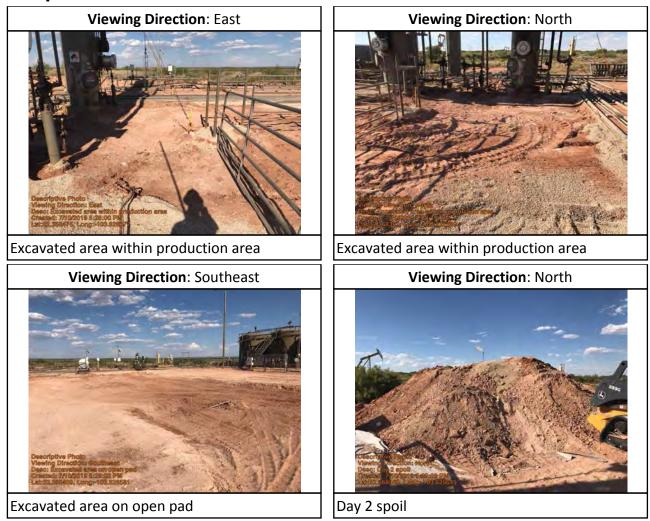
**Reading ppm** 



# **Site Photos** Viewing Direction: North Viewing Direction: West Excavated area within production area Excavated area within production area Viewing Direction: West Viewing Direction: Southeast Excavated area within production area Excavated area within production area

Run on 7/11/2019 12:55 AM UTC



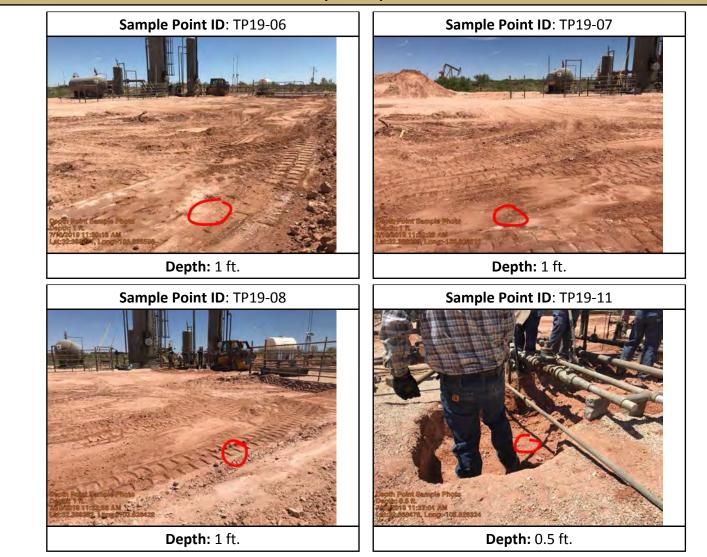




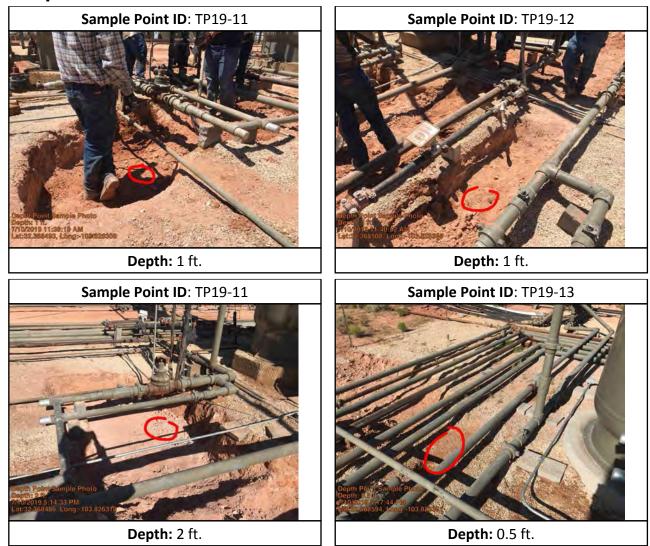




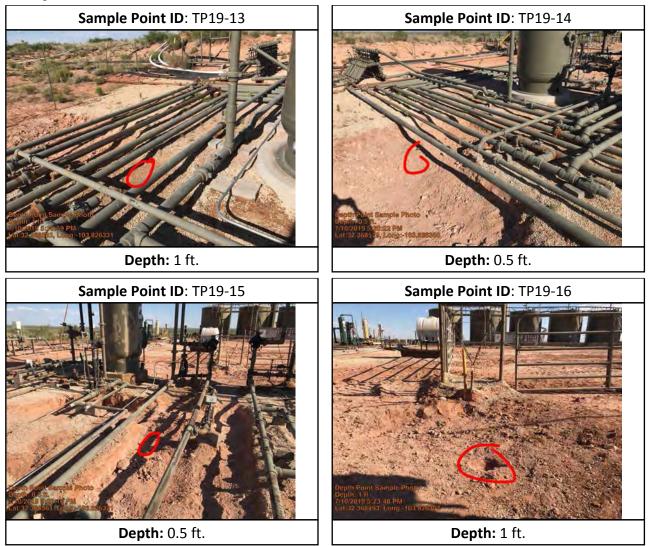
#### **Depth Sample Photos**

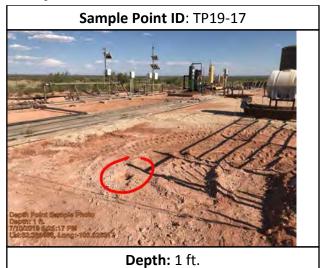
















#### **Daily Site Visit Signature**

Inspector: Austin Harris

Signature:

Signature

Run on 7/11/2019 12:55 AM UTC

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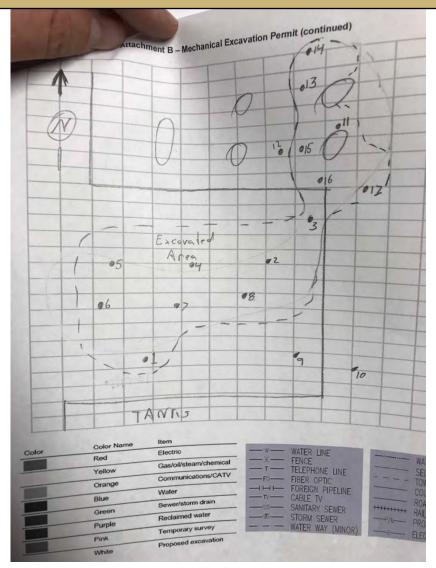
**Released to Imaging: 10/2/2023 2:38:56 PM** 



Client:	Devon Energy Corporation	Inspection Date:	
Site Location Name:	Apache 5 Fed #003	– Report Run Date:	7/16/2019 12:08 AM
Project Owner:	Amanda Davis	— File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	<b>Fimes</b>
Left Office			
Arrived at Site			
Departed Site	7/11/2019 2:46 PM		
Returned to Office	7/11/2019 3:45 PM		



#### Site Sketch



Run on 7/16/2019 12:08 AM UTC



#### **Summary of Daily Operations**

13:02 Arrive on site.

Fill out safety paperwork. Continue excavation. Complete DFR. Return to office.

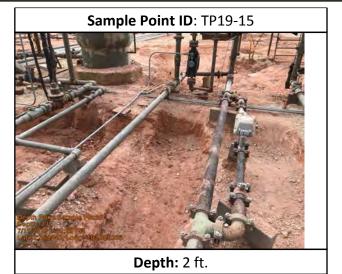
#### **Next Steps & Recommendations**

**1** Operation cancelled for day due to lightning in area.

	Sampling								
TP19	9-15								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	3.3 ppm	110 ppm	Low (30-600 ppm)	151 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	,	Yes



#### **Depth Sample Photos**





#### **Daily Site Visit Signature**

Inspector: Austin Harris

Signature:



Client:	Devon Energy Corporation	Inspection Date:	7/12/2019
Site Location Name:	Apache 5 Fed #003	– Report Run Date:	7/13/2019 12:25 AM
Project Owner:	Amanda Davis	– File (Project) #:	19E-00575
Project Manager:	Dennis Williams	– API #:	
Client Contact Name:	Amanda Davis	– Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/12/2019 7:00 AM		
Arrived at Site	7/12/2019 7:53 AM		
Departed Site	7/12/2019 5:13 PM		
Returned to Office	7/12/2019 6:04 PM		



#### Site Sketch

Attac	hment B – Mechanical Exca	ation Perm	it (continued	1)
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			7	10
7	ANKS	-		
	identifi T			
Color Name	Item			
Red	Electric		WATER LINE	
Yellow	Gas/oil/steam/chemical	-x-	FENCE	

Run on 7/13/2019 12:25 AM UTC



Page 64 of 161

#### **Summary of Daily Operations**

**9:11** Arrive on site.

Complete safety paperwork. Complete excavation and field screening. Complete DFR. Return to office.

#### **Next Steps & Recommendations**

- **1** Send samples to lab
- 2 Confirm closure criteria on site
- **3** Backfill excavated area
- **4** Closure report

	Sampling								
FP19	9-13								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	3.5 ft.	13.7 ppm	270 ppm	Low (30-600 ppm)	74 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36857912, - 103.82631449	Yes
P19	9-14								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	1.3 ppm	35 ppm	Low (30-600 ppm)	86 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	$\checkmark$	32.36860007, - 103.82629703	Yes

Run on 7/13/2019 12:25 AM UTC

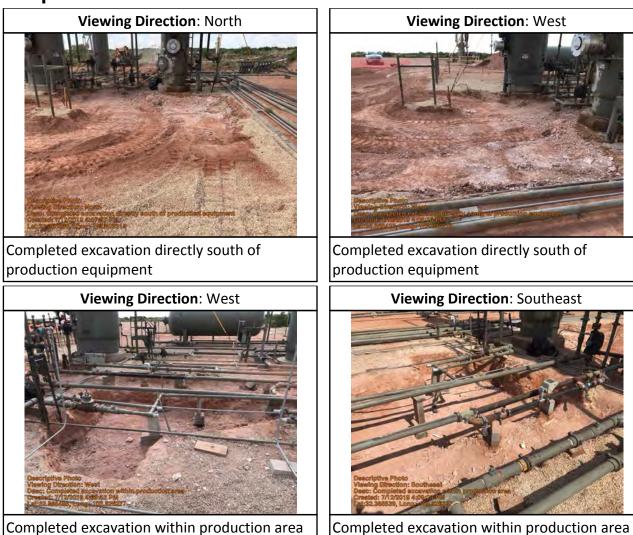
Powered by www.krinkleldar.com



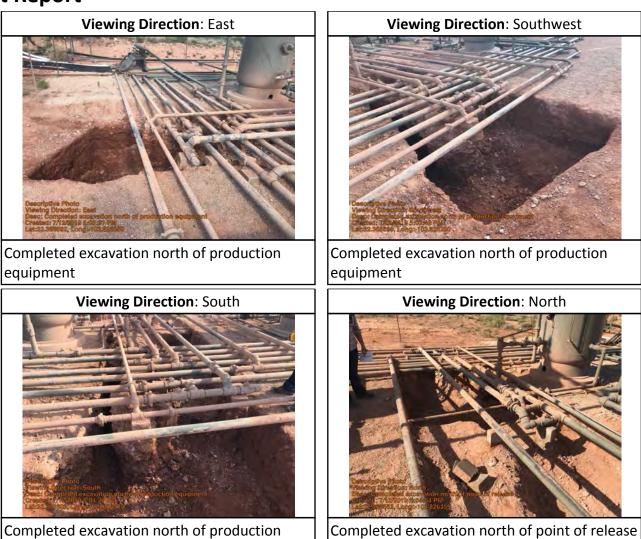
# **Site Photos** Viewing Direction: Southeast Viewing Direction: South or 19-70 Completed excavation on open pad Completed excavation on open pad Viewing Direction: West Viewing Direction: Northeast Completed excavation on open pad Completed excavation on open pad

Run on 7/13/2019 12:25 AM UTC



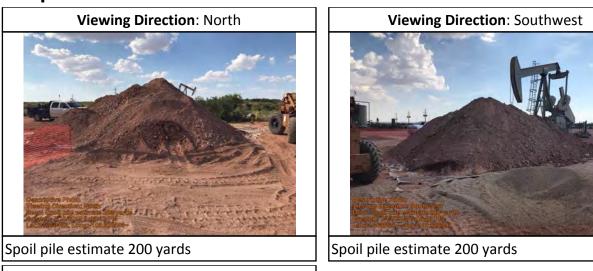






equipment



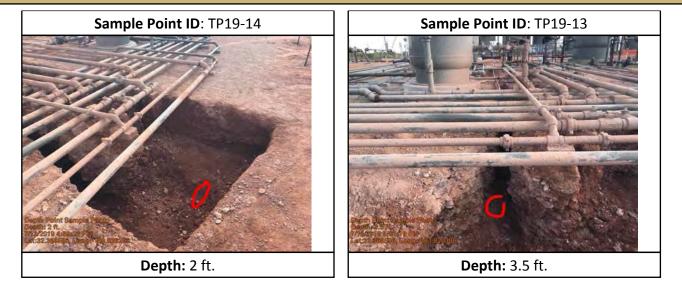




Spoil pile estimate 200 yards



#### **Depth Sample Photos**





#### **Daily Site Visit Signature**

Powered by www.krinkleldar.com

Inspector: Austin Harris

Signature:

Run on 7/13/2019 12:25 AM UTC



Client:	Devon Energy Corporation	Inspection Date:	7/23/2019
Site Location Name:	Apache 5 Fed #003	Report Run Date:	7/24/2019 2:32 AM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/23/2019 6:57 AM		
Arrived at Site	7/23/2019 7:52 AM		
Departed Site	7/23/2019 7:30 PM		
Returned to Office	7/23/2019 8:20 PM		

#### **Summary of Daily Operations**

**7:53** Arrived on site and complete all safety paperwork and arrival form.

**17:40** Started backfill with clean base coarse material.

**18:38** Put wire fence back together.

18:38 Fenced off excavation area.

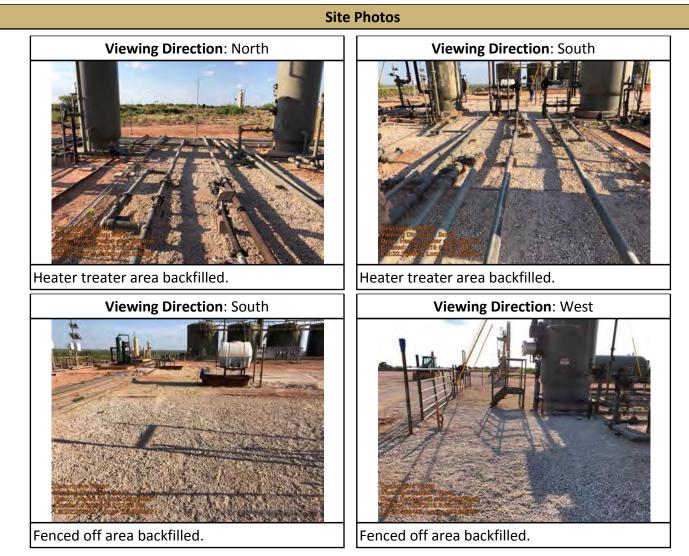
#### **Next Steps & Recommendations**

**1** Finish backfill tomorrow.

2 Complete closure report for NMOCD and the client.

3 Close out file.







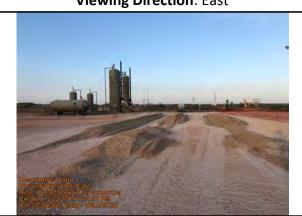


Heater Treater area backfilled.

## Viewing Direction: East



Excavation area fenced off.



Clean backfill for tomorrow



**Daily Site Visit Signature** 

Inspector: Robyn Fisher

Signature:

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Client:	Devon Energy Corporation	Inspection Date:	7/24/2019
Site Location Name:	Apache 5 Fed #003	– Report Run Date:	7/24/2019 11:50 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	
Client Contact Name:	Amanda Davis	Reference	2RP- Assigned
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	7/24/2019 6:57 AM		
Arrived at Site	7/24/2019 7:49 AM		
Departed Site	7/24/2019 1:14 PM		
Returned to Office	7/24/2019 2:17 PM		

## **Summary of Daily Operations**

**7:50** Arrive onsite and complete safety paperwork and arrival form.

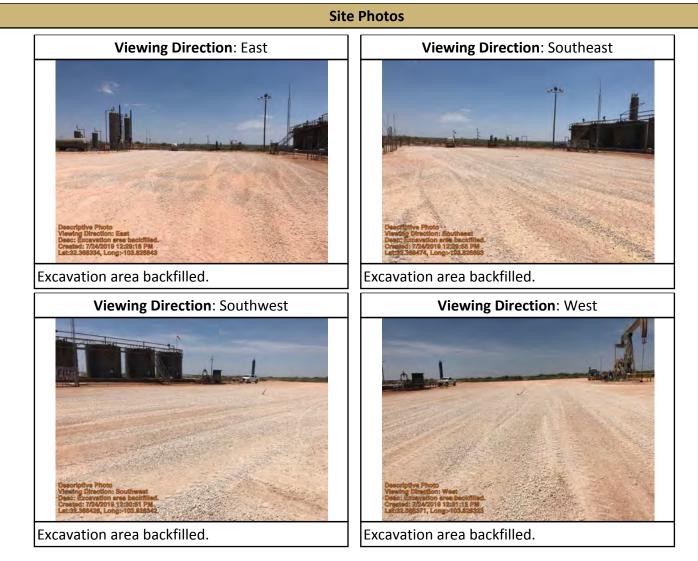
12:28 Backfill completed.

**Next Steps & Recommendations** 

**1** Complete closure report for NMOCD and the client.

2 Close out file.









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**Daily Site Visit Signature** 

Inspector: Robyn Fisher

Signature:

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## **ATTACHMENT 4**

# 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)	d,					2=NE (	3=SW 4=SE aest) (N	) AD83 UTM in me	eters)	(	In feet)	
POD Number	POD Sub- Code basin (	Count	Q	QQ				y (	Y	Distance	Depth	Depth	Water Column
C 03221 EXPLORE	CUB	ED	-			22S		610995	3581935* 🌍	614	651	Hator	oolullii
<u>C 02637</u>	CUB	ED	1	33	24	22S	30E	608950	3582377* 🌍	1513	759		
C 02950 EXPL	CUB	ED	4	24	23	22S	30E	608740	3582576* 🌍	1780	845		
<u>C 02759</u>	CUB	ED	1	2 1	29	22S	31E	612604	3581952* 🌍	2222	795		
<u>C 02758</u>	CUB	ED	3	2 1	29	22S	31E	612604	3581752* 🌍	2226	661		
<u>C 02762</u>	CUB	ED	3	2 1	29	22S	31E	612604	3581752* 🌍	2226	672		
<u>C 02763</u>	CUB	ED	3	2 1	29	22S	31E	612604	3581752* 🌍	2226	660		
<u>C 02766</u>	CUB	ED	3	33	29	22S	31E	612216	3580541* 🌍	2274	589		
<u>C 02683</u>	CUB	ED	3	1 1	20	22S	31E	612184	3583356* 🌍	2324	840		
<u>C 02418</u>	CUB	ED	3	23	29	22S	31E	612613	3580948* 🌍	2420	617	413	204
<u>C 02419</u>	CUB	ED	3	23	29	22S	31E	612613	3580948* 🌍	2420	225		
C 03976 POD1	CUB	ED	1	34	20	22S	31E	612967	3582387 🌍	2633	180		
C 03976 POD2	CUB	ED	1	34	20	22S	31E	612967	3582387 🌍	2633	70		
C 03976 POD3	CUB	ED	1	34	20	22S	31E	612967	3582387 🌍	2633	182		
C 03976 POD4	CUB	ED	1	34	20	22S	31E	612968	3582386 🌍	2633	71		
C 03561 POD4	CUB	ED	3	23	36	22S	30E	609419	3579425 🌍	2643	25	0	25
C 03561 POD5	CUB	ED	3	23	36	22S	30E	609419	3579425 🌍	2643	20	0	20
C 03561 POD3	CUB	ED	3	23	36	22S	30E	609393	3579425 🌍	2653	25	0	25
C 03561 POD2	CUB	ED	3	23	36	22S	30E	609314	3579424 🌍	2684	25	0	25
C 03561 POD1	CUB	ED	3	23	36	22S	30E	609288	3579393 🌍	2723	30	0	30
<u>C 02413</u>	CUB	ED	1	2 1	20	22S	31E	612586	3583560* 🌍	2767	737		
C 02662	CUB	ED	1	2 2	29	22S	31E	613409	3581960* 🌍	3027	856		
C 02765	CUB	ED	1	22	29	22S	31E	613409	3581960* 🌍	3027	856		
C 02989	CUB	ED	3	44	20	22S	31E	613404	3582162* 🌍	3034	54		
C 02753	CUB	ED	1	44	20	22S	31E	613404	3582362* 🌍	3059	851		
<u>C 02986</u>	CUB	ED	1	44	20	22S	31E	613404	3582362* 🍯	3059	71		
*UTM location was derived f	from PLSS - see I	Help											

\*UTM location was derived from PLSS - see Help

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#### Received by OCD: 5/10/2023 9:55:53 AM

water right file.)

**POD Number** 

closed)

POD Sub-

QQQ Code basin County 64 16 4 Sec Tws Rng

(quarters are smallest to largest) (NAD83 U

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Page 81 of 161

JTM in me	ters)	(	n feet)	
Y	Distance	-	-	Water Column
362* 🌍	3059	71		

FOD Number	Coue basin	County	04	10	4 、	Sec I	W5	кпу	~		Distance	wen	water CO	nunn
<u>C 02990</u>	CUB	ED	1	4	4	20 2	22S	31E	613404	3582362* 🌍	3059	71		
<u>C 02505</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	69	48	21
<u>C 02506</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	69	48	21
<u>C 02507</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	73	45	28
<u>C 02752</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 😜	3233	2875		
<u>C 02801</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	65		
<u>C 02802</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 😜	3233	65		
<u>C 02803</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 😜	3233	65		
<u>C 02981</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	62		
<u>C 02983</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 😜	3233	60		
<u>C 02987</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	68		
<u>C 02991</u>	CUB	ED	4	4	4	20 2	22S	31E	613604	3582162* 🌍	3233	64		
<u>C 02737</u>	С	ED	2	4	2	29 2	22S	31E	613604	3581567 🌍	3238	710		
<u>C 02811</u>	CUB	ED	2	4	2	29 2	22S	31E	613613	3581558* 🌍	3247	80		
<u>C 02980</u>	CUB	ED	2	4	4	20 2	22S	31E	613604	3582362* 🌍	3256	62		
<u>C 02982</u>	CUB	ED	2	4	4	20 2	22S	31E	613604	3582362* 🌍	3256	65		
<u>C 02984</u>	CUB	ED	2	4	4	20 2	22S	31E	613604	3582362* 🌍	3256	65		
<u>C 02985</u>	CUB	ED	2	4	4	20 2	22S	31E	613604	3582362* 🌍	3256	62		
<u>C 02988</u>	CUB	ED	2	4	4	20 2	22S	31E	613604	3582362* 🌍	3256	75		
<u>C 02749</u>	CUB	ED	1	1	1	18 2	22S	31E	610556	3585146* 🌍	3263	640		
<u>C 02750</u>	CUB	ED	1	1	1	18 2	22S	31E	610556	3585146* 🌍	3263	741		
<u>C 02751</u>	CUB	ED	1	1	1	18 2	22S	31E	610556	3585146* 🌍	3263	637		
<u>C 02754</u>	CUB	ED	4	2	4	20 2	22S	31E	613599	3582564* 🌍	3287	1045		
<u>C 02748</u>	CUB	ED	1	2	3	17 2	22S	31E	612576	3584364* 🌍	3308	3856		
<u>C 02760</u>	CUB	ED	2	2	4	29 2	22S	31E	613618	3581156* 🌍	3317	725		
<u>C 02761</u>	CUB	ED	2	2	4	29 2	22S	31E	613618	3581156* 🌍	3317	730		
<u>C 02764</u>	CUB	ED	2	2	4	29 2	22S	31E	613618	3581156* 🌍	3317	902		
C 02761 POD1	CUB	ED	2	2	4	29 2	22S	31E	613651	3581101 🌍	3362	725		
<u>C 03207</u>	CUB	ED	4	2	4	29 2	22S	31E	613618	3580956* 🌍	3367	150		

\*UTM location was derived from PLSS - see Help

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## Received by OCD: 5/10/2023 9:55:53 AM

water right file.)

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 Sub-		Q	Q	)						Denth	Depth	Water
POD Number	Code basin	County				Tws	Rng	х	Y	Distance	-	Water C	
<u>C 02755</u>	CUB	ED	4	4 2	2 20	22S	31E	613595	3582966* 🌍	3389	1040		
<u>C 02417</u>	CUB	ED	4	4 4	4 29	22S	31E	613623	3580554* 🌍	3504	681		
<u>C 02684</u>	CUB	ED	4	2 2	2 20	22S	31E	613590	3583368* 🌍	3533	1060		
C 03559 POD1	CUB	ED	4	3 2	2 01	23S	30E	609928	3578260 🌍	3654	50	0	50
C 03559 POD2	CUB	ED	4	3 2	2 01	23S	30E	609928	3578260 🌍	3654	25	0	25
C 03559 POD3	CUB	ED	4	3 2	2 01	23S	30E	609928	3578260 🌍	3654	20	0	20
C 03559 POD4	CUB	ED	4	3 2	2 01	23S	30E	609928	3578260 🌍	3654	25	0	25
<u>C 02725</u>	CUB	ED	1	1	1 05	23S	31E	612240	3578731* 🌍	3662	532		
<u>C 02775</u>	CUB	ED	1	1	1 05	23S	31E	612240	3578731* 🌍	3662	529		
C 03559 POD5	CUB	ED	4	3 2	2 01	23S	30E	609912	3578236 🌍	3680	50		
<u>C 02639</u>	CUB	ED	4	4 4	4 17	22S	31E	613585	3583770* 🌍	3715	3928		
<u>C 02776</u>	CUB	ED	2	1	1 05	23S	31E	612440	3578731* 🌍	3767	661		
<u>C 02638</u>	CUB	ED	4	3 3	3 35	22S	30E	607558	3578948* 🌍	4075	528		
<u>C 02414</u>	CUB	ED	3	1 :	3 16	22S	31E	613782	3584176* 🌍	4098	846		
<u>C 03139</u>	CUB	ED	4	2 4	4 01	23S	30E	610424	3577764* 🌍	4123	425		
<u>C 02420</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	779	450	329
<u>C 02421</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	786	450	336
<u>C 02422</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	785	450	335
<u>C 02423</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	782	450	332
<u>C 02424</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	786	450	336
<u>C 02425</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	788	450	338
<u>C 02426</u>	CUB	ED	4	2 3	3 28	22S	31E	614423	3580964* 🌍	4145	785	450	335
<u>C 03015</u>	CUB	ED	1	4 3	3 22	22S	30E	606099	3582353* 🌍	4308	1316	262	1054
<u>C 02664</u>	CUB	ED	3	3 2	2 05	23S	31E	613049	3578138* 🌍	4600	4291	354	3937
<u>C 02415</u>	CUB	ED	3	3 4	4 16	22S	31E	614592	3583785* 🌍	4618	880	448	432
<u>C 02682</u>	CUB	ED	4	4 4	4 08	22S	31E	613566	3585379* 🌍	4725	4400		
<u>C 02416</u>	CUB	ED	3	2 4	4 28	22S	31E	615027	3580973* 🌍	4734	800	401	399
<u>C 02723</u>	CUB	ED	2	2 3	3 15	22S	30E	606282	3584363* 🌍	4789	651		
<u>C 02685</u>	CUB	ED	2	2 2	2 28	22S	31E	615218	3581978* 🌍	4836	900		

\*UTM location was derived from PLSS - see Help

Received by OCD: 5/10/20 (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)	· ·			e 1=NW e smalle		3=SW 4 rgest)		) AD83 UTM in me	ters)	(	Page	83 of 161
POD Number	POD Sub- Code basin Co		Q (		ec Tws	Rna		x	Y	Distance	-	-	Water Column
C 02492		-	4		06 235	-	6120	)56	3577320* 🌍	4864	135	85	50
<u>C 02865</u>	CUB I	ED 4	4	4	06 235	31E	6120	)56	3577320* 🌍	4864	174		
C 03520 POD1	CI	ED 3	1	1	07 238	31E	6107	733	3576905 🌍	4993	500		
									Averaç	ge Depth to	Water:	210	feet
										Minimum	Depth:	0	feet
										Maximum	Depth:	450	feet
Record Count: 87													

## UTMNAD83 Radius Search (in meters):

Easting (X): 610382

Northing (Y): 3581887

Radius: 5000

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

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# New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

	(acre ft	per annum)				(R=POD has been repl and no longer serves the C=the file is closed)	his file, (qu			W 2=NE 3=SW llest to largest)		UTM in meters)	)
WR File Nbr	Sub basin Use Dive	,	Count	y POD Number	Well Tag	Code Grant		qqq	L	Tws Rng	X	Y	Distance
C 03221	CUB MON	0 U.S. DEPART OF ENERGY	ED	C 03221 EXPLORE			Artesia	n 1 2 1	30	22S 31E	610995	3581935* 🌍	614
<u>C 02637</u>	CUB MON	0 U.S. DEPARTMENT OF ENERGY	ÉD ED	<u>C 02637</u>				133	24	22S 30E	608950	3582377* 🧧	1513
Record Coun	t: 2												

UTMNAD83 Radius Search (in meters):

Easting (X): 610382

Northing (Y): 3581887

Radius: 1610

Sorted by: Distance

\*UTM location was derived from PLSS - see Help

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## **U.S. Fish and Wildlife Service**

# National Wetlands Inventory

# Apache 25 Federal 003 Riverine 3311ft

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## June 20, 2019

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

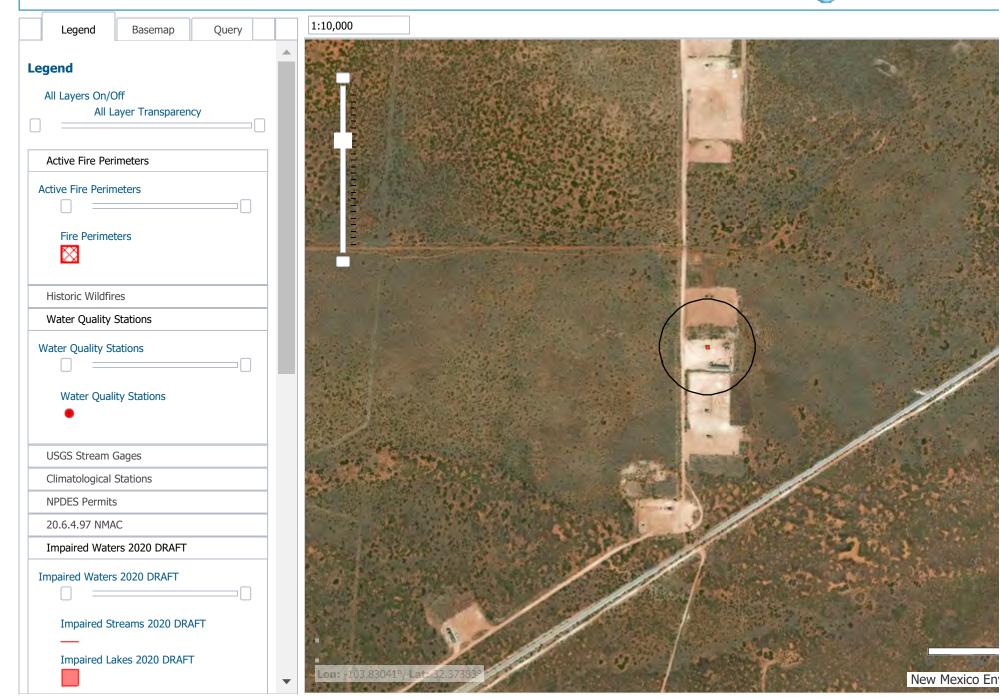
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI) This page was produced by the NWI mapper





U.S. Fish and Wildlife Service

# National Wetlands Inventory

## Page 87 of 161 Apache 25 Federal 003 Lake/Pond 6345ft



## June 20, 2019

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

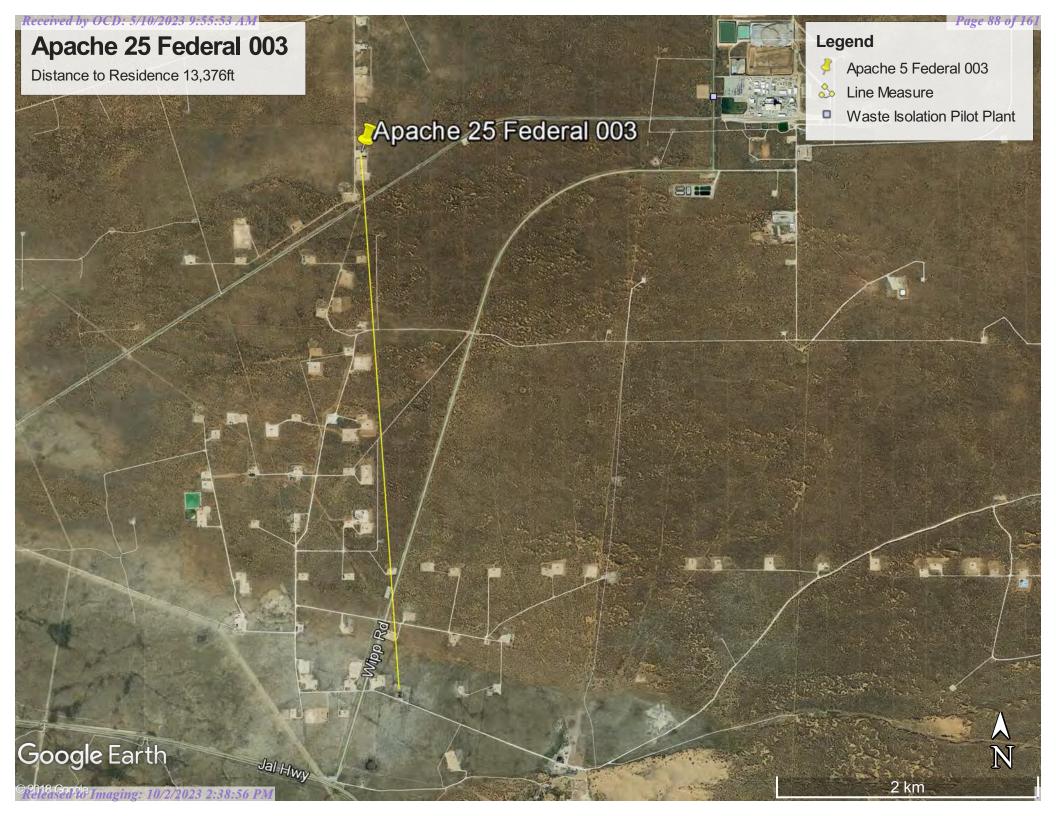
**Freshwater Pond** 

Lake Other Riverine

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## Released to Imaging: 10/2/2023 2:38:56 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper





Received by OCD: 5/10/2023 9:55:53 AM Apache 25 Fed 3

Nearest Spring 95,836 ft



a finan m

Salt Lake

7 mi

128

242 2 22

N

Apache 32.3684883, -103.8266678

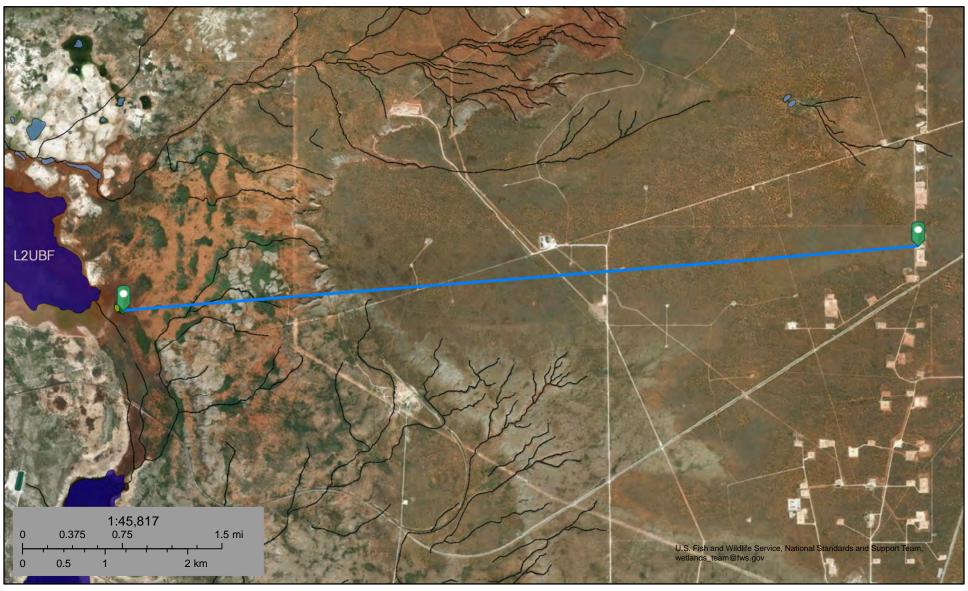


## U.S. Fish and Wildlife Service

# National Wetlands Inventory

# Apache 25 Federal 003 Wetland 26800ft

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## June 20, 2019

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- **Freshwater Pond**

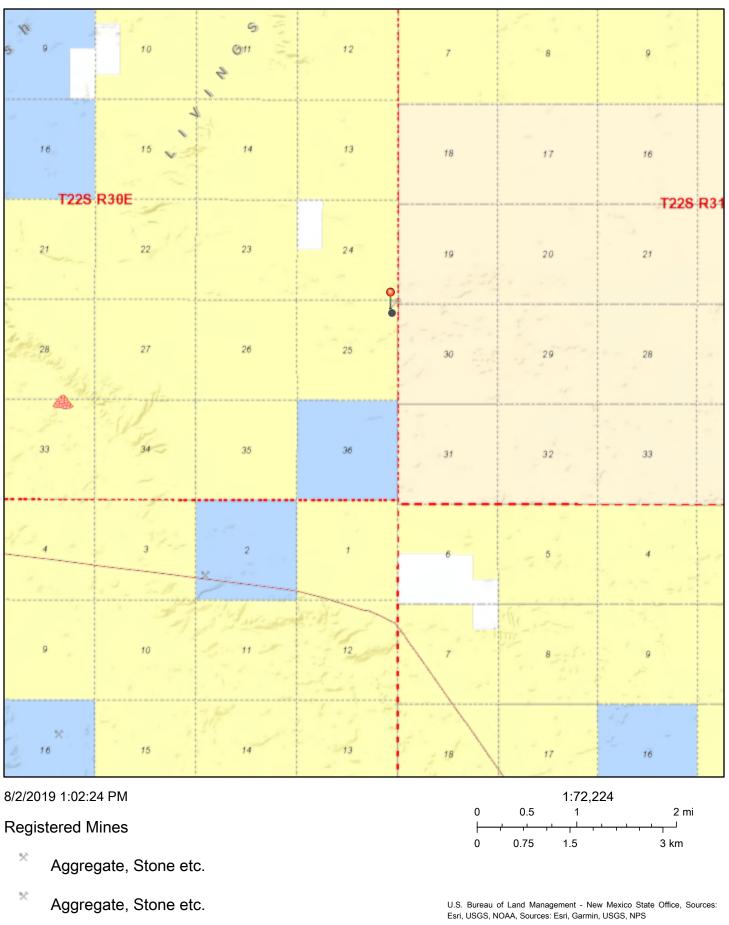
Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Potash

## Active Mines in New Mexico



EMNRD MMD GIS Coordinator Released to Imaging: 10/2022, 2028:560 RM ral Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

# National Flood Hazard Layer FIRMette

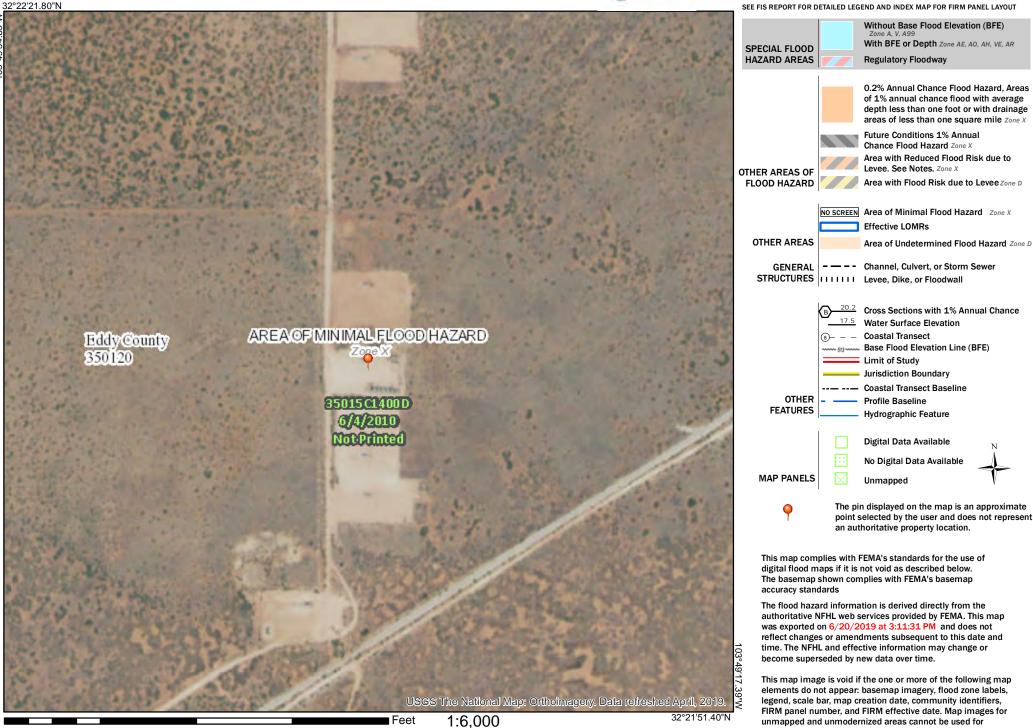


## Legend

regulatory purposes.

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

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Release The Imaging: 10/2/2023 298:56 PM 1,500

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United States Department of Agriculture

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Eddy Area, New Mexico



# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2\_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic classes has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

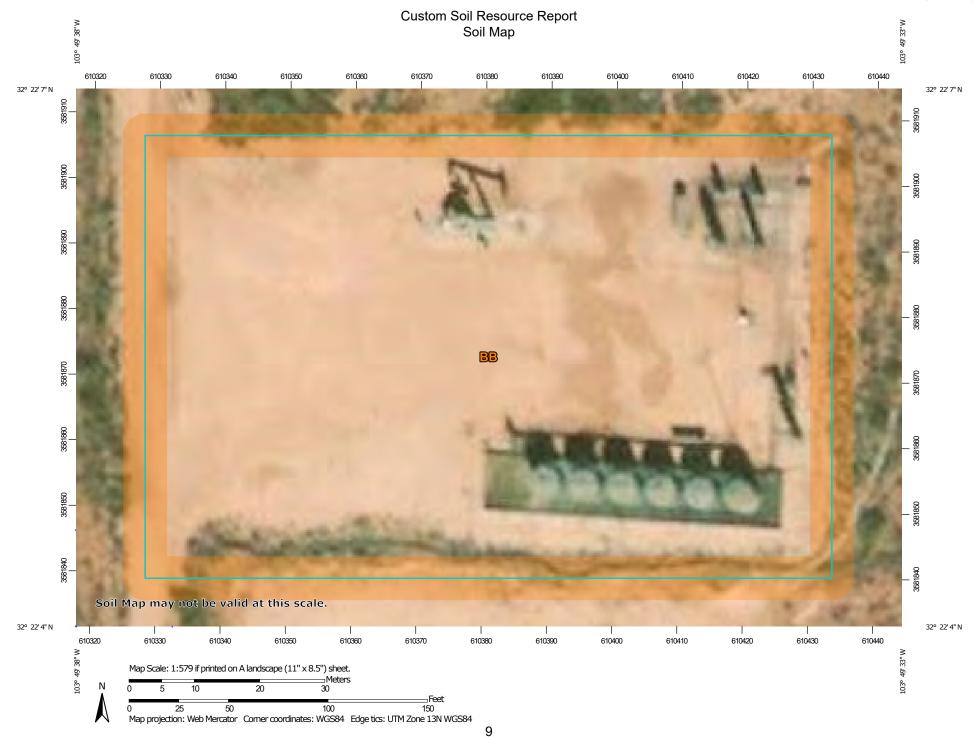
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## Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



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MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	<ul><li>Spoil Area</li><li>Stony Spot</li></ul>	The soil surveys that comprise your AOI were mapped at 1:20,000.
SoilsSoil Map Unit Polygons✓Soil Map Unit Polygons✓Soil Map Unit Lines●Soil Map Unit PointsSpecial Vint Features●Blowout●Borrow Pit●Clay Spot◇Closed Depression◇Gravel Pit◇Gravelly Spot◇Landfill▲Lava Flow▲Mine or Quarry●Mine or Quarry●Perennial Water◇Rock Outcrop↓Saline Spot○Severely Eroded Spot	Image: Stony SpotImage: Wery Stony SpotImage: Wery Stony SpotImage: Wery Stony SpotImage: Special Line FeaturesImage: Water FeaturesImage: Water FeaturesImage: Special Line FeaturesImage: Water FeaturesImage: Special Line FeaturesImage: Sp	<ul> <li>Warning: Soil Map may not be valid at this scale.</li> <li>Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.</li> <li>Please rely on the bar scale on each map sheet for map measurements.</li> <li>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</li> <li>Maps from the Web Soil Survey are based on the Web Mercato projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</li> <li>This product is generated from the USDA-NRCS certified data are of the version date(s) listed below.</li> <li>Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018</li> <li>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</li> </ul>
<ul> <li>Sinkhole</li> <li>Slide or Slip</li> <li>Sodic Spot</li> </ul>		Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
ВВ	Berino complex, 0 to 3 percent slopes, eroded	1.8	100.0%		
Totals for Area of Interest		1.8	100.0%		

## **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Eddy Area, New Mexico

## BB—Berino complex, 0 to 3 percent slopes, eroded

## Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

## **Map Unit Composition**

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Estimates are based on observations, descriptions, and transects of the mapunit.

## **Description of Berino**

## Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

## **Typical profile**

H1 - 0 to 17 inches: fine sand H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

## **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

## Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

### **Description of Pajarito**

### Setting

Landform: Interdunes, dunes, plains Landform position (three-dimensional): Side slope Down-slope shape: Linear, convex Across-slope shape: Linear, convex Parent material: Mixed alluvium and/or eolian sands

### **Typical profile**

*H1 - 0 to 9 inches:* loamy fine sand *H2 - 9 to 72 inches:* fine sandy loam

### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

## Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

### **Minor Components**

### Cacique

Percent of map unit: Ecological site: Sandy (R042XC004NM) Hydric soil rating: No

### Pajarito

Percent of map unit: Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

### Wink

Percent of map unit: Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

## Kermit

Percent of map unit: Ecological site: Deep Sand (R042XC005NM) Hydric soil rating: No

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# **ATTACHMENT 5**

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] emergen		MSDS Informatio	ched. (Check the and the check the and the check the and the check the and the check t	waste as den appropriate it RCRA Hazar feild waste th	ned by 40 CFR, part 26 ems as provided) rdous Waste Analysis at has been ordered b	1, subpart D, as amo	ended. The following do Other (Provide Descrip	ocumentation demonst otion Below)	n RCRA regulations, 40 C rating the waste as non-
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C-138 Released to Imaging: 10/2/2023 2:38:56 PM TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

R360		NEW MEXICO NON	I-HAZARDOUS OILFIELD W (PLEASE PRINT)	VASTE MANIFEST	Company M Name	Ian Contact Inform
SOLUTIONS			(FLEASE FRINT)		Phone No. 505	350-1336
			GENERATOR		NO. 22202	9
Operator No.			Permit/R		AN 00 0F 14 05 E	500
Operators Name	1 Energy		Lease/W Name &	11 21 21	e TS Frd 3	
Address	Sever R.	vers Hyphistery	County	Eufilia		
1			API No.	30- C	115-32714	
City, State, Zip	and the second second	VILO DILIO	Rig Name	e & No.	w1	14
hone No.	550-133	10	AFE/PO N	No		
	EXEMPT E&P Was	te/Service Identification ar	nd Amount (place volume ne	ext to waste type in barre	els or cubic yards)	a chair ge
Oil Based Muds Oil Based Cuttings	100	NON-INJECTABLE WATERS Washout Water (Non-Injectab		INJECTABLE WAT		CONTRACTOR CONTRACTOR
Water Based Muds		Completion Fluid/Flow back (N		Washout Water ( Completion Fluid)	Flow back (Injectable)	
Water Based Cuttings		Produced Water (Non-Injectab		Produced Water (		
Produced Formation Solids Fank Bottoms	100	Gathering Line Water/Waste (	Non-Injectable)		ater/Waste (Injectable)	
E&P Contaminated Soil	Sec. 1	INTERNAL USE ONLY Truck Washout (exempt waste	al	OTHER EXEMPT W	ASTES (type and generation pro	cess of the waste)
Gas Plant Waste		ndek washout (exempt waste	-)		Seller	
VASTE GENERATION PROCESS	ŝ: 🗌 [	DRILLING	COMPLETION	PRODUCTION	GATHERI	ING LINES
		NON-EXEMPT E	&P Waste/Service Identification	and Amount		
All on-Exempt Other	non-exempt E&P wa	ste must be analysed and be b	pelow the threshold limits for tox			to a periodent
			pieuse	select from Non-Exempt Wo	aste List on back	
UANTITY	20	B - BARRELS	L - LIQUIC	)	Y - YARDS	E - EACH
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RANGER CON	NEW MEXICO NO	DN-HAZARDOUS OILFIELD WASTE (PLEASE PRINT)	MANIFEST Name	Company Man Contact Inform
		GENERATOR	Phone No.	505-350-1336
perator No.			NO. 38	8937
The set		Permit/RRC No. Lease/Well		
erators Name	UT Q Y	Name & No.	Ache 25	Forts
dress 6455 52	den ha das Highuma	County	Cidu	
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ne No. 505-350-	- 13.00	Rig Name & No.	14 J	al/M
		AFE/PO No.		the second s
EXEMPT E Based Muds	E&P Waste/Service Identification	and Amount (place volume next to w	vaste type in barrels or cubic ya	rds)
Based Cuttings	INON-INJECTABLE WATERS		INJECTABLE WATERS	and the second se
ter Based Muds	Washout Water (Non-Inject Completion Fluid/Flow back	able)	Washout Water (Injectable)	
ter Based Cuttings	Produced Water (Non-Inject	(Non-Injectable)	Completion Fluid/Flow back (Inje	ctable)
duced Formation Solids	Gathering Line Water/Waste		Produced Water (Injectable) Gathering Line Water/Waste (Inje	ostable)
k Bottoms	INTERNAL USE ONLY		OTHER EXEMPT WASTES (type and	rectable)
Contaminated Soil	Truck Washout (exempt was	ste)	to to reo (type and	generation process of the waster
STE GENERATION PROCESS:	DRILLING		En CA	1101
			PRODUCTION	GATHERING LINES
All non-exemp	NON-EXEMPT pt E&P waste must be analysed and be	E&P Waste/Service Identification and Amo below the threshold limits for toxicity (TC	ount (LP) Ignitability Correctivity and P	tiole
Exempt Other			om Non-Exempt Waste List on bac	
			om Non-Exempt waste list on bac	K
NTITY	B - BARREL	= = = =	Y - YARDS	E - EACH
by certify that according to the Resource	Conservation and Recovery Act (RCR)	A) and the US Environmental Protection Ag	tongy's luly 1088 seculation data	
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EXEM	IPT E&P Waste/Service Ide	ntification and Amour		aste type in barrels or cubic yards)	
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ater Based Muds	Washout Water	(Non-Injectable) d/Flow back (Non-Injecta	14	Washout Water (Injectable)	
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P Contaminated Soil	Truck Washout (			OTHER EXEMPT WASTES (type and generation	n process of the waste)
s Plant Waste		sheript waster		- Setter	Duran
STE GENERATION PROCESS:	DRILLING			PRODUCTION GATE	HERING LINES
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-Exempt Other	xempt E&P waste must be ana	lysed and be below the th	hreshold limits for toxicity (TCL	P), Ignitability, Corrosivity and Reactivity.	CONTRACT OF CONTRACTOR
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ANTITY	20	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
eby certify that according to the Reso is (Check the appropriate classificatio	ource Conservation and Recove	ery Act (RCRA) and the US	S Environmental Protection Age	ncy's July 1988 regulatory determination, t	
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# **ATTACHMENT 6**

#### Table 3. Soil Characterization - Salinity and Petroleum Hydrocarbon Parameters Client Name: Devon Energy Site Name: Apache 25 Federal #003 Project #: 19E-00575-016 Lab Report(s): 1907726

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						1	Table 3. S	oil Analys	sis - July 8	3, 2019								
	Sample Descri	ption	Fi	eld Screeni	ng					P	etroleum H	lydrocarbo	ns					
				Fla					Volatile						Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	(Delta (PID) (PID) (PID) (PID)	B B Extractable Organic Compounds (PetroFla	.+.   Quantab Result (High/Low)	Benzene (mg/kg)	enene Toluene (mg/kg)	a)) (gay/benzene	(mgg/kg) Xylenes (o&m)	(b) Xylenes (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	bay (bay (bay) (bay)	aa) Bartex (Total) (영內	ම් (GRO) මී Gasoline Range Organics (GRO) කී	) 3. (5) (5) (10) (10) (10) (10) (10) (10) (10) (10	영영 (영국) (영국)	(OXO + DKO) (mg/kg)	) mg/ fotal Petroleum Hydrocarbons (TPH) (b	Chloride (mg/kg)
BG19-01	0	7/08/2019	(ppiii) 1	(ppiii) 47	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG19-01	2	7/08/2019	1	48	241	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
TP19-01	0.5	7/09/2019	1	31	277	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270
TP19-02	0.5	7/09/2019	1	109	59	ND	ND	ND	ND	ND	ND	ND	4.2	53	ND	57.2	57.2	69
TP19-03	0.5	7/09/2019	1	1,119	296	ND	ND	ND	ND	ND	0.43	0.43	21	120	62	141	203	210
TP19-04	1	7/09/2019	1	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-05	1	7/09/2019	1	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-06	1	7/10/2019	5	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	15	15	ND
TP19-07	1	7/10/2019	8	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-08	1	7/10/2019	13	78	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	ND	35	35	ND
TP19-09	0.5	7/09/2019	5	111	ND	ND	ND	ND	ND	ND	ND	ND	ND	31	56	31	87	ND
TP19-10	0.5	7/09/2019	0	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-11	2	7/10/2019	998	1,040	ND	ND	ND	ND	ND	ND	ND	ND	ND	710	300	710	1010	ND
TP19-12	1	7/10/2019	7	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-13	3.5	7/12/2019	4	270	74	ND	ND	ND	ND	ND	ND	ND	ND	31	ND	31	31	94
TP19-14	2	7/12/2019	1	35	86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP19-15	2	7/11/2019	1,341	110	151	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	130
TP19-16	1	7/10/2019	9	15	86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
TP19-17	1	7/10/2019	2	0	86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62

Bold and Shaded indicates exceedance outside of applied action level.



# **ATTACHMENT 7**

From:	Dennis Williams
То:	Robyn Fisher; Kathlene Meadows
Subject:	Fwd: Devon Energy - Apache 25 Federal #003 - 2RP-5435 - Confirmatory sample notification
Date:	July 18, 2019 8:18:39 AM

From: Dennis Williams

Sent: Monday, July 8, 2019 6:56:16 AM

To: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD

Cc: amanda.davis@dvn.com; Bynum, Tom (Contract); Dhugal Hanton; Almager, Steve

Subject: Devon Energy - Apache 25 Federal #003 - 2RP-5435 - Confirmatory sample notification

Good morning All,

Please accept this email as 48hr notification that Vertex Resource Services Inc. has scheduled final confirmatory sampling at the above named location on July 9<sup>th</sup> 2019 at 8:00 am. Austin Harris from Vertex will be on site performing the sampling and can be reached at 432-250-5003. If you need assistance with directions to site please do not hesitate to contact them.

If you have any other questions or concerns, please do not hesitate to contact me.

# **ATTACHMENT 8**



July 18, 2019

Dennis Williams Devon Energy 6488 Seven Rivers Highway Artesia, NM 888210 TEL: (575) 748-0176 FAX

RE: Apache 25 Fed 3

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

OrderNo.: 1907726

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 19 sample(s) on 7/16/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT:	Devon Energy
Project:	Apache 25 Fed 3

1907726-001

#### Client Sample ID: BG19-01 0.0' Collection Date: 7/8/2019 10:00:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/16/2019 11:01:14 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2019 11:01:14 AM
Surr: DNOP	93.4	70-130	%Rec	1	7/16/2019 11:01:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/16/2019 10:48:03 AM
Surr: BFB	107	73.8-119	%Rec	1	7/16/2019 10:48:03 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	7/16/2019 10:48:03 AM
Toluene	ND	0.039	mg/Kg	1	7/16/2019 10:48:03 AM
Ethylbenzene	ND	0.039	mg/Kg	1	7/16/2019 10:48:03 AM
Xylenes, Total	ND	0.078	mg/Kg	1	7/16/2019 10:48:03 AM
Surr: 4-Bromofluorobenzene	90.6	80-120	%Rec	1	7/16/2019 10:48:03 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 12:15:54 PM

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

**Qualifiers:** 

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

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

Page 1 of 25

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

<b>CLIENT:</b>	Devon Energy
Project:	Apache 25 Fed 3
Lab ID:	1907726-002

Client Sample ID: BG19-01 2.0' Collection Date: 7/8/2019 10:00:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/16/2019 11:25:27 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/16/2019 11:25:27 AM
Surr: DNOP	98.3	70-130	%Rec	1	7/16/2019 11:25:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	7/16/2019 11:10:45 AM
Surr: BFB	96.5	73.8-119	%Rec	1	7/16/2019 11:10:45 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	7/16/2019 11:10:45 AM
Toluene	ND	0.038	mg/Kg	1	7/16/2019 11:10:45 AM
Ethylbenzene	ND	0.038	mg/Kg	1	7/16/2019 11:10:45 AM
Xylenes, Total	ND	0.076	mg/Kg	1	7/16/2019 11:10:45 AM
Surr: 4-Bromofluorobenzene	81.4	80-120	%Rec	1	7/16/2019 11:10:45 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	240	60	mg/Kg	20	7/16/2019 12:28:19 PM

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

**Qualifiers:** 

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

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT:	Devon Energy		Client Sample ID: TP19-01 0.5'
Project:	Apache 25 Fed 3		Collection Date: 7/9/2019 10:00
Lab ID:	1907726-003	Matrix: MEOH (SOIL)	Received Date: 7/16/2019 9:15

10:00:00 AM 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/16/2019 11:49:38 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2019 11:49:38 AM
Surr: DNOP	97.0	70-130	%Rec	1	7/16/2019 11:49:38 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	7/16/2019 11:33:31 AM
Surr: BFB	101	73.8-119	%Rec	1	7/16/2019 11:33:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	7/16/2019 11:33:31 AM
Toluene	ND	0.034	mg/Kg	1	7/16/2019 11:33:31 AM
Ethylbenzene	ND	0.034	mg/Kg	1	7/16/2019 11:33:31 AM
Xylenes, Total	ND	0.069	mg/Kg	1	7/16/2019 11:33:31 AM
Surr: 4-Bromofluorobenzene	89.5	80-120	%Rec	1	7/16/2019 11:33:31 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	270	60	mg/Kg	20	7/16/2019 12:40:43 PM

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

**Qualifiers:** 

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

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT:	Devon Energy	Client Sample ID: TP19-02 0.5'
Project:	Apache 25 Fed 3	Collection Date: 7/9/2019 10:30:00 AM
Lab ID:	1907726-004	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	53	9.7	mg/Kg	1	7/16/2019 12:13:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 12:13:56 PM
Surr: DNOP	112	70-130	%Rec	1	7/16/2019 12:13:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	4.2	3.8	mg/Kg	1	7/16/2019 11:56:17 AM
Surr: BFB	156	73.8-119	S %Rec	1	7/16/2019 11:56:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	7/16/2019 11:56:17 AM
Toluene	ND	0.038	mg/Kg	1	7/16/2019 11:56:17 AM
Ethylbenzene	ND	0.038	mg/Kg	1	7/16/2019 11:56:17 AM
Xylenes, Total	ND	0.077	mg/Kg	1	7/16/2019 11:56:17 AM
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	7/16/2019 11:56:17 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	69	60	mg/Kg	20	7/16/2019 12:53:08 PM

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

**Qualifiers:** 

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

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT: Devon Energy	Client Sample ID: TP19-03 0.5'
Project: Apache 25 Fed 3	Collection Date: 7/9/2019 11:00:00 AM
Lab ID: 1907726-005	Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: BRM
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	7/16/2019 11:08:27 AM
Motor Oil Range Organics (MRO)	62	49		mg/Kg	1	7/16/2019 11:08:27 AM
Surr: DNOP	95.0	70-130		%Rec	1	7/16/2019 11:08:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	21	20		mg/Kg	5	7/16/2019 12:19:04 PM
Surr: BFB	151	73.8-119	S	%Rec	5	7/16/2019 12:19:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	7/16/2019 12:19:04 PM
Toluene	ND	0.20		mg/Kg	5	7/16/2019 12:19:04 PM
Ethylbenzene	ND	0.20		mg/Kg	5	7/16/2019 12:19:04 PM
Xylenes, Total	0.43	0.40		mg/Kg	5	7/16/2019 12:19:04 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	7/16/2019 12:19:04 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	210	60		mg/Kg	20	7/16/2019 1:05:33 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT:	Devon Energy	(	Client Sample ID: TP19-04 1.0'
Project:	Apache 25 Fed 3		Collection Date: 7/9/2019 12:00:00 PM
Lab ID:	1907726-006	Matrix: MEOH (SOIL)	<b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/16/2019 11:30:39 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2019 11:30:39 AM
Surr: DNOP	90.9	70-130	%Rec	1	7/16/2019 11:30:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	7/16/2019 12:41:52 PM
Surr: BFB	107	73.8-119	%Rec	1	7/16/2019 12:41:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	7/16/2019 12:41:52 PM
Toluene	ND	0.040	mg/Kg	1	7/16/2019 12:41:52 PM
Ethylbenzene	ND	0.040	mg/Kg	1	7/16/2019 12:41:52 PM
Xylenes, Total	ND	0.080	mg/Kg	1	7/16/2019 12:41:52 PM
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	7/16/2019 12:41:52 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 1:17:58 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2019

CLIENT:	Devon Energy
<b>Project:</b>	Apache 25 Fed 3
Lab ID:	1907726-007

Client Sample ID: TP19-05 1.0' Collection Date: 7/9/2019 12:30:00 PM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/16/2019 11:53:01 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 11:53:01 AM
Surr: DNOP	87.5	70-130	%Rec	1	7/16/2019 11:53:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	7/16/2019 1:04:41 PM
Surr: BFB	105	73.8-119	%Rec	1	7/16/2019 1:04:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	7/16/2019 1:04:41 PM
Toluene	ND	0.043	mg/Kg	1	7/16/2019 1:04:41 PM
Ethylbenzene	ND	0.043	mg/Kg	1	7/16/2019 1:04:41 PM
Xylenes, Total	ND	0.086	mg/Kg	1	7/16/2019 1:04:41 PM
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	7/16/2019 1:04:41 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 1:30:22 PM

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

**Qualifiers:** 

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

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT: Devon Energy	Client Sample ID: TP19-09 0.5'
Project: Apache 25 Fed 3	Collection Date: 7/9/2019 1:00:00 PM
Lab ID: 1907726-008	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	31	9.3	mg/Kg	1	7/16/2019 12:15:26 PM
Motor Oil Range Organics (MRO)	56	47	mg/Kg	1	7/16/2019 12:15:26 PM
Surr: DNOP	96.8	70-130	%Rec	1	7/16/2019 12:15:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	7/16/2019 1:27:30 PM
Surr: BFB	105	73.8-119	%Rec	1	7/16/2019 1:27:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	7/16/2019 1:27:30 PM
Toluene	ND	0.042	mg/Kg	1	7/16/2019 1:27:30 PM
Ethylbenzene	ND	0.042	mg/Kg	1	7/16/2019 1:27:30 PM
Xylenes, Total	ND	0.084	mg/Kg	1	7/16/2019 1:27:30 PM
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	7/16/2019 1:27:30 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 2:07:35 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT: Devon Energy	Client Sample ID: TP19-10 0.5'
<b>Project:</b> Apache 25 Fed 3	Collection Date: 7/9/2019 1:30:00 PM
Lab ID: 1907726-009	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/16/2019 12:37:55 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 12:37:55 PM
Surr: DNOP	101	70-130	%Rec	1	7/16/2019 12:37:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	7/16/2019 1:50:22 PM
Surr: BFB	104	73.8-119	%Rec	1	7/16/2019 1:50:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.018	mg/Kg	1	7/16/2019 1:50:22 PM
Toluene	ND	0.037	mg/Kg	1	7/16/2019 1:50:22 PM
Ethylbenzene	ND	0.037	mg/Kg	1	7/16/2019 1:50:22 PM
Xylenes, Total	ND	0.073	mg/Kg	1	7/16/2019 1:50:22 PM
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	7/16/2019 1:50:22 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 2:20:00 PM

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

**Qualifiers:** 

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

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

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**CLIENT:** Devon

Apache 25 Fed 3

1907726-010

**Project:** 

Lab ID:

Analytical Report

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order **1907726** Date Reported: **7/18/2019** 

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Client Sample ID: TP19-16 1.0' Collection Date: 7/10/2019 9:00:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/16/2019 1:00:06 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 1:00:06 PM
Surr: DNOP	92.1	70-130	%Rec	1	7/16/2019 1:00:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	7/16/2019 2:13:14 PM
Surr: BFB	106	73.8-119	%Rec	1	7/16/2019 2:13:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	7/16/2019 2:13:14 PM
Toluene	ND	0.043	mg/Kg	1	7/16/2019 2:13:14 PM
Ethylbenzene	ND	0.043	mg/Kg	1	7/16/2019 2:13:14 PM
Xylenes, Total	ND	0.086	mg/Kg	1	7/16/2019 2:13:14 PM
Surr: 4-Bromofluorobenzene	93.7	80-120	%Rec	1	7/16/2019 2:13:14 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	110	60	mg/Kg	20	7/16/2019 2:32:24 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2019

CLIENT:	Devon Energy
<b>Project:</b>	Apache 25 Fed 3
Lab ID:	1907726-011

Client Sample ID: TP19-17 1.0' Collection Date: 7/10/2019 10:00:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/16/2019 1:22:18 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 1:22:18 PM
Surr: DNOP	91.4	70-130	%Rec	1	7/16/2019 1:22:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/16/2019 10:53:00 AM
Surr: BFB	96.6	73.8-119	%Rec	1	7/16/2019 10:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	7/16/2019 10:53:00 AM
Toluene	ND	0.047	mg/Kg	1	7/16/2019 10:53:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/16/2019 10:53:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/16/2019 10:53:00 AM
Surr: 4-Bromofluorobenzene	99.1	80-120	%Rec	1	7/16/2019 10:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	62	59	mg/Kg	20	7/16/2019 2:44:49 PM

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

**Qualifiers:** 

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

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

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Released to Imaging: 10/2/2023 2:38:56 PM

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2019

CLIENT:	Devon Energy
<b>Project:</b>	Apache 25 Fed 3
Lab ID:	1907726-012

Client Sample ID: TP19-08 1.0' Collection Date: 7/10/2019 11:00:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	35	9.7	mg/Kg	1	7/16/2019 1:44:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2019 1:44:32 PM
Surr: DNOP	94.7	70-130	%Rec	1	7/16/2019 1:44:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/16/2019 11:16:34 AM
Surr: BFB	96.6	73.8-119	%Rec	1	7/16/2019 11:16:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	7/16/2019 11:16:34 AM
Toluene	ND	0.039	mg/Kg	1	7/16/2019 11:16:34 AM
Ethylbenzene	ND	0.039	mg/Kg	1	7/16/2019 11:16:34 AM
Xylenes, Total	ND	0.078	mg/Kg	1	7/16/2019 11:16:34 AM
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	7/16/2019 11:16:34 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	59	mg/Kg	20	7/16/2019 2:57:14 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order **1907726** Date Reported: **7/18/2019** 

CLIENT:	Devon Energy				
Project:	Apache 25 Fed 3				

1907726-013

Lab ID:

# Client Sample ID: TP19-12 1.0' Collection Date: 7/10/2019 11:35:00 AM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	7/16/2019 2:07:05 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/16/2019 2:07:05 PM
Surr: DNOP	86.8	70-130	%Rec	1	7/16/2019 2:07:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/16/2019 11:40:06 AM
Surr: BFB	98.1	73.8-119	%Rec	1	7/16/2019 11:40:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	7/16/2019 11:40:06 AM
Toluene	ND	0.039	mg/Kg	1	7/16/2019 11:40:06 AM
Ethylbenzene	ND	0.039	mg/Kg	1	7/16/2019 11:40:06 AM
Xylenes, Total	ND	0.079	mg/Kg	1	7/16/2019 11:40:06 AM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/16/2019 11:40:06 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 1:05:35 PM

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

**Qualifiers:** 

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

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

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# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2019

<b>CLIENT:</b>	Devon Energy	
<b>Project:</b>	Apache 25 Fed 3	
Lab ID:	1907726-014	

Client Sample ID: TP19-06 1.0' Collection Date: 7/10/2019 12:00:00 PM

Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	15	9.2	mg/Kg	1	7/16/2019 2:29:15 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/16/2019 2:29:15 PM
Surr: DNOP	87.4	70-130	%Rec	1	7/16/2019 2:29:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	7/16/2019 12:03:36 PM
Surr: BFB	95.9	73.8-119	%Rec	1	7/16/2019 12:03:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	7/16/2019 12:03:36 PM
Toluene	ND	0.034	mg/Kg	1	7/16/2019 12:03:36 PM
Ethylbenzene	ND	0.034	mg/Kg	1	7/16/2019 12:03:36 PM
Xylenes, Total	ND	0.068	mg/Kg	1	7/16/2019 12:03:36 PM
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	7/16/2019 12:03:36 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 1:17:59 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2019

<b>CLIENT:</b> Devon Energy	Cli
<b>Project:</b> Apache 25 Fed 3	0
Lab ID: 1907726-015	Matrix: MEOH (SOIL)

Client Sample ID: TP19-07 1.0' Collection Date: 7/10/2019 12:45:00 PM

L) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/16/2019 2:15:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2019 2:15:46 PM
Surr: DNOP	99.0	70-130	%Rec	1	7/16/2019 2:15:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	7/16/2019 12:27:10 PM
Surr: BFB	98.7	73.8-119	%Rec	1	7/16/2019 12:27:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	7/16/2019 12:27:10 PM
Toluene	ND	0.034	mg/Kg	1	7/16/2019 12:27:10 PM
Ethylbenzene	ND	0.034	mg/Kg	1	7/16/2019 12:27:10 PM
Xylenes, Total	ND	0.067	mg/Kg	1	7/16/2019 12:27:10 PM
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/16/2019 12:27:10 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	7/16/2019 1:30:24 PM

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

**Qualifiers:** 

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT: Devon Energy	Client Sample ID: TP19-11 2.0'
Project: Apache 25 Fed 3	Collection Date: 7/10/2019 1:00:00 PM
Lab ID: 1907726-016	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	710	9.6	mg/K	g 1	7/16/2019 12:38:07 PM
Motor Oil Range Organics (MRO)	300	48	mg/K	g 1	7/16/2019 12:38:07 PM
Surr: DNOP	113	70-130	%Red	c 1	7/16/2019 12:38:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	18	mg/K	g 5	7/16/2019 12:50:46 PM
Surr: BFB	134	73.8-119	S %Red	c 5	7/16/2019 12:50:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.092	mg/K	g 5	7/16/2019 12:50:46 PM
Toluene	ND	0.18	mg/K	g 5	7/16/2019 12:50:46 PM
Ethylbenzene	ND	0.18	mg/K	g 5	7/16/2019 12:50:46 PM
Xylenes, Total	ND	0.37	mg/K	g 5	7/16/2019 12:50:46 PM
Surr: 4-Bromofluorobenzene	107	80-120	%Red	5	7/16/2019 12:50:46 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/K	g 20	7/16/2019 1:42:48 PM

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

**Qualifiers:** 

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

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

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**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

**CLIENT:** Devon Energy Client Sample ID: TP19-15 2.0' **Project:** Apache 25 Fed 3 Collection Date: 7/11/2019 1:25:00 PM 1907726-017 Lab ID: Matrix: MEOH (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	10	10	mg/Kg	1	7/16/2019 1:02:34 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2019 1:02:34 PM
Surr: DNOP	90.7	70-130	%Rec	1	7/16/2019 1:02:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	7/16/2019 1:14:27 PM
Surr: BFB	102	73.8-119	%Rec	1	7/16/2019 1:14:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	7/16/2019 1:14:27 PM
Toluene	ND	0.042	mg/Kg	1	7/16/2019 1:14:27 PM
Ethylbenzene	ND	0.042	mg/Kg	1	7/16/2019 1:14:27 PM
Xylenes, Total	ND	0.085	mg/Kg	1	7/16/2019 1:14:27 PM
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/16/2019 1:14:27 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	130	60	mg/Kg	20	7/16/2019 2:20:02 PM

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

**Qualifiers:** 

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

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

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Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **1907726** Date Reported: **7/18/2019** 

CLIENT:	Devon Energy
Project:	Apache 25 Fed 3

1907726-018

Lab ID:

Client Sample ID: TP19-14 2.0' Collection Date: 7/12/2019 2:00:00 PM

Matrix: MEOH (SOIL)

H (SOIL) Received Date: 7/16/2019 9:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/16/2019 1:26:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/16/2019 1:26:53 PM
Surr: DNOP	102	70-130	%Rec	1	7/16/2019 1:26:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	7/16/2019 1:38:05 PM
Surr: BFB	108	73.8-119	%Rec	1	7/16/2019 1:38:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	7/16/2019 1:38:05 PM
Toluene	ND	0.034	mg/Kg	1	7/16/2019 1:38:05 PM
Ethylbenzene	ND	0.034	mg/Kg	1	7/16/2019 1:38:05 PM
Xylenes, Total	ND	0.068	mg/Kg	1	7/16/2019 1:38:05 PM
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	7/16/2019 1:38:05 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	61	mg/Kg	20	7/16/2019 2:32:26 PM

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

**Qualifiers:** 

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

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

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**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1907726

Date Reported: 7/18/2019

CLIENT: Devon Energy	Client Sample ID: TP19-13 3.5'
<b>Project:</b> Apache 25 Fed 3	Collection Date: 7/12/2019 3:30:00 PM
Lab ID: 1907726-019	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/16/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	31	9.2	mg/Kg	1	7/16/2019 1:51:22 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/16/2019 1:51:22 PM
Surr: DNOP	109	70-130	%Rec	1	7/16/2019 1:51:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	7/16/2019 2:01:44 PM
Surr: BFB	107	73.8-119	%Rec	1	7/16/2019 2:01:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	7/16/2019 2:01:44 PM
Toluene	ND	0.044	mg/Kg	1	7/16/2019 2:01:44 PM
Ethylbenzene	ND	0.044	mg/Kg	1	7/16/2019 2:01:44 PM
Xylenes, Total	ND	0.089	mg/Kg	1	7/16/2019 2:01:44 PM
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/16/2019 2:01:44 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	94	60	mg/Kg	20	7/16/2019 2:44:51 PM

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

**Qualifiers:** 

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

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

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Client:	Devon E	nergy								
Project:	Apache 2	25 Fed 3								
Sample ID:	MB-46203	SampType: <b>MB</b>	LK	Tes	tCode: EF	A Method	300.0: Anion:	5		
Client ID:	PBS	Batch ID: 462	203	F	RunNo: 61	1410				
Prep Date:	7/16/2019	Analysis Date: 7/	6/2019	S	SeqNo: 20	082563	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-46203	SampType: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch ID: 462	203	F	RunNo: <b>61</b>	1410				
Prep Date:	7/16/2019	Analysis Date: 7/1	6/2019	S	SeqNo: 20	)82564	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	93.7	90	110			
Sample ID:	MB-46200	SampType: mb	lk	Tes	tCode: EF	A Method	300.0: Anions	6		
Client ID:	PBS	Batch ID: 462	200	F	RunNo: <b>61</b>	1409				
Prep Date:	7/16/2019	Analysis Date: 7/1	6/2019	S	SeqNo: 20	)82630	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-46200	SampType: Ics		Tes	tCode: EF	A Method	300.0: Anion:	S		
Client ID:	LCSS	Batch ID: 462	200	F	RunNo: <b>61</b>	1409				
Prep Date:	7/16/2019	Analysis Date: 7/1	6/2019	S	SeqNo: 20	)82631	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

Devon Energy

**Client:** 

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

Project:	Apache 25	Fed 3									
Sample ID: LCS-	46194	SampTy	pe: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	6	Batch	ID: 46	194	F	RunNo: 6	1390				
Prep Date: 7/16	6 <b>/2019</b> A	nalysis Da	ite: 7/	16/2019	S	SeqNo: 20	081502	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	s (DRO)	54	10	50.00	0	107	63.9	124			
Surr: DNOP		4.6		5.000		92.0	70	130			
Sample ID: MB-4	6194	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS		Batch	Batch ID: 46194 RunNo: 61390								
Prep Date: 7/16	6 <b>/2019</b> A	nalysis Da	ite: 7/	16/2019	S	SeqNo: 20	081503	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	s (DRO)	ND	10								
Motor Oil Range Orga	nics (MRO)	ND	50								
Surr: DNOP		9.8		10.00		97.7	70	130			
Sample ID: 1907	726-001AMS	SampTy	pe: <b>MS</b>	6	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: BG19	9-01 0.0'	Batch	ID: 46	194	RunNo: 61390						
Prep Date: 7/16	6 <b>/2019</b> A	nalysis Da	ite: 7/	16/2019	S	SeqNo: 20	082514	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	s (DRO)	45	9.2	46.17	0	97.2	57	142			
Surr: DNOP		4.0		4.617		86.5	70	130			
Sample ID: 1907	726-001AMSD	SampTy	pe: <b>MS</b>	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BG19	9-01 0.0'	Batch	ID: 46	194	F	RunNo: 6	1390				
Prep Date: 7/16	6 <b>/2019</b> A	nalysis Da	ite: 7/	16/2019	S	SeqNo: 20	082515	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	s (DRO)	50	9.9	49.50	0	101	57	142	10.5	20	
Surr: DNOP		4.2		4.950		84.8	70	130	0	0	

#### Qualifiers:

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

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

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WO#:

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

Client: Project:	Devon Energy Apache 25 Fed	3								
	Apache 25 Peu	5								
Sample ID: RB	Sa	атрТуре: М	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	9	
Client ID: PBS		Batch ID: G	61408	F	RunNo: 61	1408				
Prep Date:	Analy	sis Date: 7	/16/2019	S	SeqNo: 20	081927	Units: mg/k	٢g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi Surr: BFB	cs (GRO) N 10	ND 5.0	1000		104	73.8	119			
Sample ID: 2.5UG	GRO LCS Sa	ampType: L	cs	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	е	
Client ID: LCSS		Batch ID: G	61408	F	RunNo: 61	1408				
Prep Date:	Analy	sis Date: 7	/16/2019	S	SeqNo: 20	081928	Units: <b>mg/k</b>	٢g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	24 5.0	25.00	0	96.0	80.1	123			
Surr: BFB	12	00	1000		120	73.8	119			S
Sample ID: 19077	26-001AMS Sa	ampType: <b>M</b>	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BG19-	01 0.0'	Batch ID: G	61408	F	RunNo: 61	1408				
Prep Date:	Analy	sis Date: 7	/16/2019	S	SeqNo: <b>2(</b>	081929	Units: mg/k	٤g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	19 3.9	19.38	0	97.7	69.1	142			
Surr: BFB	9	40	775.2		121	73.8	119			S
Sample ID: 19077	26-001AMSD Sa	атрТуре: <b>М</b>	SD	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	9	
Client ID: BG19-	01 0.0'	Batch ID: G	61408	F	RunNo: 61	1408				
Prep Date:	Analy	sis Date: 7	/16/2019	S	SeqNo: <b>2(</b>	081930	Units: mg/k	ζg		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	18 3.9	19.38	0	92.3	69.1	142	5.73	20	
Surr: BFB	18	00	775.2		233	73.8	119	0	0	S
Sample ID: RB	Sa	ampType: <b>M</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch ID: G	61407	F	RunNo: 61	1407				
Prep Date:	Analy	sis Date: 7	/16/2019	S	SeqNo: 20	081963	Units: <b>mg/k</b>	٤g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi Surr: BFB	cs (GRO) 10	ND 5.0	1000		102	73.8	119			
Sample ID: 2.5UG	GRO LCS Sa	ampType: L	cs	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS		Batch ID: G	61407	F	RunNo: 61	1407				
Prep Date:		sis Date: 7	/16/2019	S	SeqNo: 20	081964	Units: <b>mg/k</b>	٢g		

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

P Sample pH Not In Range

RL Reporting Limit

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1907726

18-Jul-19

WO#:

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

Client: Project:	Devon Er Apache 2	•••									
Sample ID: 2.5U	G GRO LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCS	6	Batch	ID: <b>G6</b>	1407	R	unNo: 6	1407				
Prep Date:		Analysis D	ate: 7/	16/2019	S	eqNo: 2	081964	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	nics (GRO)	21	5.0	25.00	0	83.6	80.1	123			
Surr: BFB		1100		1000		106	73.8	119			
Sample ID: 1907	726-011AMS	MS         SampType:         MS         TestCode:         EPA Method 8015D:         Gasoline Range									
Client ID: TP19	-17 1.0'	Batch	ID: <b>G6</b>	1407	RunNo: 61407						
Prep Date:		Analysis D	ate: 7/	16/2019	SeqNo: 2081965			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	nics (GRO)	23	4.7	23.50	0	96.0	69.1	142			
Surr: BFB		1000		939.8		111	73.8	119			
Sample ID: 1907	726-011AMSI	D SampT	ype: <b>MS</b>	SD.	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: TP19	-17 1.0'	Batch	ID: <b>G6</b>	1407	R	lunNo: 6	1407				
Prep Date:		Analysis D	ate: 7/	16/2019	S	eqNo: 2	081966	Units: <b>mg/K</b>	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	nics (GRO)	22	4.7	23.50	0	92.9	69.1	142	3.30	20	
Surr: BFB		1000		939.8		107	73.8	119	0	0	

Qualifiers:

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

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

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IMMARY REPORT	WO#:	1907726
vironmental Analysis Laboratory, Inc.		18-Jul-19

Devon Energy

**Client:** 

	WO#:	1907726
all Environmental Analysis Laboratory, Inc.		18-Jul-19

Client ID: Prep Date:Batch ID: Analysis Date:Batch ID: 7/16/2019Bel 408RunNo: 6140861408Units: mg/KgRPDRPDLimitQualAnalyteResultPQLSPK valueSPK Ref Val 90.005 $3/RPC$ LowLimitHighLimit $N_RPD$ RPDLimitQualInteractionND0.005Server Val 94.5 $3/RPC$ LowLimitHighLimit $N_RPD$ RPDLimitQualInteractionND0.050Server Val 94.580120Surr. 4 Bromofluorobenzene0.941.00094.580120 </th <th>Project: Apache</th> <th>25 Fed 3</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Project: Apache	25 Fed 3									
Prep Date:       Analysis Date:       71/6/2019       SeqNo:       2081942       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Ierezene       ND       0.050          ND       0.050         stylepazene       ND       0.050         Server Altomofluorobenzene       Server Altomofluorobenzene       Server Altomofluorobenzene       ND       0.050         Sample ID:       100NG BTEX LCS       Samptr ID:       Batch       Batch       Result       PT/6/2019       SeqNo:       2091943       Units:       mg/Kg         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Wines, Total       <	Sample ID: RB	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Analysic         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Ianzane         ND         0.025	Client ID: PBS	Batc	h ID: <b>B6</b>	1408	F	RunNo: 6	1408				
Inscription         ND         0.025           oluene         ND         0.050           tytiptenzane         ND         0.050           sturt 4Bromofluorobenzene         0.94         1.000         94.5         80         120           Sample ID:         100NG BTEX LCS         SampType:         LCS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCSS         Batch ID:         B61408         RunNo:         61408           Prep Date:         Analysis Date:         7/16/2019         SeqNo:         2081943         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLinit         HighLinit         %RPD         RPDLimit         Qual           lenzene         0.97         0.025         1.000         96.2         80         120           vighenes, Total         2.9         0.10         3.000         96.7         80         120           Sur: 4Bromofluorobenzene         0.99         1.000         95.2         80         120           Sample ID:         1907726-002AMS         SampType: MS         TestCode:         EPA Method 8021B:         Volatiles <tr< th=""><th>Prep Date:</th><th>Analysis [</th><th>Date: 7/</th><th>16/2019</th><th>5</th><th>SeqNo: <b>2</b></th><th>081942</th><th>Units: mg/ł</th><th>٢g</th><th></th><th></th></tr<>	Prep Date:	Analysis [	Date: 7/	16/2019	5	SeqNo: <b>2</b>	081942	Units: mg/ł	٢g		
obleneND thylkjenzeneND o0.050 0.050Surri 4-Bromofluorobenzene0.941.0094.580120Surri 4-Bromofluorobenzene0.941.0094.580120Surri 4-Bromofluorobenzene0.941.0094.580120Surri 4-Bromofluorobenzene0.94716/2019SeqNo:2081943Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECkowLimitHighLimit%RPDRPDLimitQualAnalyteResultPQLSPK valueSPK Ref Val%RECkowLimitHighLimit%RPDRPDLimitQualAnalyteResultPQLSPK valueSPK Ref Val%RECkowLimitHighLimit%RPDRPDLimitQualGuene0.950.0501.000096.280120 </td <td>Analyte</td> <td>Result</td> <td>PQL</td> <td>SPK value</td> <td>SPK Ref Val</td> <td>%REC</td> <td>LowLimit</td> <td>HighLimit</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND       0.050         Vyenes, Total       ND       0.04       1.000       94.5       80       120         Same Homofluorobenzane       0.94       1.000       94.5       80       120         Same Homofluorobenzane       0.94       1.000       94.5       80       120         Same Homofluorobenzane       0.94       56140       RunNo:       61408       Volta:       NP       RPDLimit       MRD       Qual         Prep Date:       Analyte       Result       P16/LOTH       SPK value       SPK value       SPK value       SPK value       SPK value       MRE       Monto:       MRD       MRD       MOD       Qual         Prep Date:       Result       P04       SPK value       SPK value       SPK value       SPK value       SPK value       MRE       Mod       MOD </td <td>Benzene</td> <td>ND</td> <td>0.025</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Benzene	ND	0.025								
vigenes, Total         ND         0.10           Surr, 4-Bromofluorobenzene         0.94         1.000         94.5         80         120           Sample ID:         100NG BTEX LCS         SampType:         LCS         Batch ID:         B61408         RunNo:         61408           Prep Date:         Analysis         Date:         7/16/2019         SeqNo:         2081943         Units:         mg/kg           Analysie         Rpol         0.055         1.000         0         96.8         80         120           Guene         0.96         0.050         1.000         0         96.8         80         120           Surr, 4-Bromofluorobenzene         0.96         0.050         1.000         0         96.2         80         120           Vigenes, Total         2.9         0.10         3.00         0         96.7         80         120           Vigenes, Total         2.9         0.10         3.000         0         96.7         80         120           Surr, 4-Bromofluorobenzene         0.99         1.000         96.7         80         120         120           Surr, 4-Bromofluorobenzene         0.99         1.000         96.7         80	Foluene	ND	0.050								
Sur: 4-Bromofluorobenzene         0.94         1.000         94.5         80         120           Sample ID:         100NG BTEX LCS         SampType:         LC         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCSS         Batch ID:         B61408         RunNo:         61408         units:         mg/kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Ierezene         0.97         0.025         1.000         0         96.8         800         120           Volat	Ethylbenzene	ND									
Sample ID: 100NG BTEX LCS         SampType: LCS         TestCode: EPA Method 8021B: Volatiles           Client ID: LCSS         Batch ID: B61408         RunNo: 61408           Prep Date:         Analysis Date: 7/16/2019         SeqNo: 2081943         Units: mg/Kg           Analyte         Result         PQL         SPK Ref Val         %REC         Low/Limit         HighLimit         %RPD         RPDLimit         Qual           Result         PQL         SPK Ref Val         %REC         Low/Limit         HighLimit         %RPD         RPDLimit         Qual           Invoice         0.95         0.025         1.000         9.9.2         80         120           SampType: MS         TestCode: EPA Method 8021B: Volatiles           SampE ID: 1907726-002AMS         SampType: MS         RunNo: 61408           Prep Date:         7/16/2019         SeqNo: 2081944         Units: mg/Kg           Colspan="4">Sam	Xylenes, Total	ND	0.10								
Client ID:       LCSS       Batch ID:       Bet 4 ID:       Bet 408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081943       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Ienzane       0.97       0.025       1.000       0       96.8       80       120       1000       1000       1000       96.2       80       120       1000       1000       1000       96.7       80       120       1000       1000       99.2       80       120       1000       1000       99.2       80       120       1000       1000       99.2       80       120       1000       1000       1000       99.2       80       120       10000       1000       1000	Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	80	120			
Prep Date:         Analysis Date:         7/16/2019         SeqNo:         2081943         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           lenzane         0.97         0.025         1.000         0         96.8         80         120           ithylbenzene         0.96         0.050         1.000         0         95.3         80         120           Surr: 4-Bromofluorobenzene         0.99         0.10         3.000         0         96.7         80         120           Surr: 4-Bromofluorobenzene         0.99         1.000         99.2         80         120            Sample ID:         1907726-002AMS         SampType:         MS         TestCode:         EPA Method 8021B: Volatiles            Client ID:         BG19-01 2.0'         Batch ID:         B81408         RunNo:         61403          PPDLimit         Qual           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Sample ID: 100NG BTEX LC	<b>S</b> Samp <sup>-</sup>	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Radyte         Result         PQL         SPK value         SPK Ref Val         % REC         LowLimit         HighLimit         % RPD         RPDLimit         Qual           lenzane         0.97         0.025         1.000         0         96.8         80         120           joluene         0.96         0.050         1.000         0         96.2         80         120           joluene         0.95         0.050         1.000         0         95.3         80         120           joluene         0.99         0.10         3.000         0         96.7         80         120           Surr: 4-Bromofluorobenzene         0.99         1.000         99.2         80         120             Sample ID:         1907726-002AMS         SampType: MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         BG19-01 2.0'         Batch: ID:         B61408         RunNo:         61408         Units:         mg/Kg           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           ienzene         0.72         0.019	Client ID: LCSS	Batc	h ID: <b>B6</b>	1408	F	RunNo: 6	1408				
Intervane         0.97         0.025         1.000         0         96.8         80         120           Oluene         0.96         0.050         1.000         0         96.2         80         120           Stritybenzene         0.95         0.050         1.000         0         95.3         80         120           Surr 4-Bromofluorobenzene         0.99         1.000         99.2         80         120           Surr 4-Bromofluorobenzene         0.99         1.000         99.2         80         120           Sample ID:         1907726-002AMS         SampType: MS         TestCode: EPA Method 8021B: Volatiles           Client ID:         BG19-01 2.0'         Batch ID:         B61408         RunNo: 61408           Prep Date:         Analysis Date:         7/16/2019         SeqNo: 2081944         Units: mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Velenee         0.72         0.038         0.7564         0         95.6         71         132           Velenes, Total         2.2         0.076         2.269         95.4 <t< td=""><td>Prep Date:</td><td>Analysis [</td><td>Date: 7/</td><td>16/2019</td><td>5</td><td>SeqNo: 2</td><td>081943</td><td>Units: mg/ł</td><td>٢g</td><td></td><td></td></t<>	Prep Date:	Analysis [	Date: 7/	16/2019	5	SeqNo: 2	081943	Units: mg/ł	٢g		
bluene         0.96         0.050         1.000         0         96.2         80         120           tittybenzene         0.95         0.050         1.000         0         95.3         80         120           Surr: 4-Bromofluorobenzene         0.99         1.000         99.2         80         120           Sample ID:         1907726-002AMS         SampType:         MS         TestCode:         EPA Method         8021B:         Volatiles           Client ID:         BG19-01 2.0'         Batch         D:         B61408         RunNo:         61408         Units:         mg/kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           enzene         0.72         0.019         0.7564         0         94.6         63.9         127         131         501         120         <	Analyte	Result			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ithlybanzene       0.95       0.050       1.000       0       95.3       80       120         Surr 4.Bromofluorobenzene       0.99       1.000       99.2       80       120         Surr 4.Bromofluorobenzene       0.99       1.000       99.2       80       120         Surr 4.Bromofluorobenzene       0.99       Batch       D:       Be1401       8019-01 2.0'       Batch       D:       Be1401       RunNo:       61408         Prep Date:       Analysis       Dit:       716/2019       SeqNo:       2081944       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val $^{0}$ REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Goluene       0.72       0.038       0.7564       0.09       95.6       71       132       131	Benzene	0.97	0.025	1.000	0	96.8	80	120			
Sylenes, Total       2.9       0.10       3.000       0       96.7       80       120         Surr: 4-Bromofluorobenzene       0.99       1.000       99.2       80       120         Sample ID:       1907726-002AMS       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408       Volatiles       Volatiles         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Venese       0.72       0.019       0.7564       0       94.6       63.9       127         Voluene       0.74       0.038       0.7564       0       95.6       71       132         Surr: 4-Bromofluorobenzene       0.76       2.269       0       95.4       71.8       131         Surr: 4-Bromofluorobenzene       0.76       0.7564       99.9       80       120       Volatiles         Sample ID:       1907726-002AMSD       SampType:       MSE       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch ID: <td>Toluene</td> <td>0.96</td> <td>0.050</td> <td>1.000</td> <td>0</td> <td>96.2</td> <td>80</td> <td>120</td> <td></td> <td></td> <td></td>	Toluene	0.96	0.050	1.000	0	96.2	80	120			
Sur: 4-Bromofluorobenzene         0.99         1.000         99.2         80         120           Sample ID:         1907726-002AMS         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         BG19-01 2.0'         Batch ID:         B61408         RunNo:         61408         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Venzene         0.72         0.019         0.7564         0         94.6         63.9         127           Voluene         0.72         0.038         0.7564         0         95.6         71         132           Stritybenzene         0.72         0.038         0.7564         99.9         80         120         120           Sample ID:         1907726-002AMSD         SampType:         MSC         131         131         131         131           Sur: 4-Bromofluorobenzene         0.76         2.269         0         95.4         71.8         131         131           Sur: 4-Bromofluorobenzene         0.76         2.269         0	Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
TestCode: EPA Method 8021B: Volatiles         Sample ID:       1907726-002AMS       SampType:       MS       TestCode:       EPA Method 8021B: Volatiles         Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408       Units:       mg/Kg         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081944       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val $^{\circ}$ REC       LowLimit       HighLimit $^{\circ}$ RPD       RPDLimit       Qual         Ithybenzene       0.72       0.019       0.7564       0       95.6       71       132       131         Surr: 4-Bromofluorobenzene       0.76       2.269       0       95.4       71.8       131       131         Surr: 4-Bromofluorobenzene       0.76       2.269       0       95.4       71.8       131       131         Surr: 4-Bromofluorobenzene       0.76       2.269       0       95.4       71.8       131       131         Surr: 4-Bromofluorobenzene       0.76       2.269       0       95.4       71.8       131       40.6       20         Surr: 4-Bromofluorobenzene       0.76       2	Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081944       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Itenzene       0.72       0.019       0.7564       0       94.6       63.9       127       132       141       131       131       132       141       132       141       131 <t< td=""><td>Surr: 4-Bromofluorobenzene</td><td>0.99</td><td></td><td>1.000</td><td></td><td>99.2</td><td>80</td><td>120</td><td></td><td></td><td></td></t<>	Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			
Prep Date:         Analysis Date:         7/16/2019         SeqNo:         2081944         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Jenzene         0.72         0.019         0.7564         0         94.6         63.9         127           Joluene         0.74         0.038         0.7564         0         95.6         71         132         14 <t< td=""><td>Sample ID: 1907726-002AMS</td><td>Samp<sup>-</sup></td><td>Гуре: <b>МS</b></td><td>3</td><td>Tes</td><td>tCode: El</td><td>PA Method</td><td>8021B: Vola</td><td>tiles</td><td></td><td></td></t<>	Sample ID: 1907726-002AMS	Samp <sup>-</sup>	Гуре: <b>МS</b>	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Venzene         0.72         0.019         0.7564         0         94.6         63.9         127           Followene         0.74         0.038         0.7564         0.003139         98.0         69.9         131           Sthylbenzene         0.72         0.038         0.7564         0         95.6         71         132           Sylenes, Total         2.2         0.076         2.269         0         95.4         71.8         131           Surr: 4-Bromofluorobenzene         0.76         0.7564         99.9         80         120         Venzer           Sample ID:         1907726-002AMSD         SampType: MSD         TestCode:         EPA Method 8021B: Volatiles         Venzer           Client ID:         BG19-01 2.0'         Batch ID:         B61408         RunNo:         61408         Venzer         Venzer           Prep Date:         Analysis Date:         r/16/2019         SeqNo:         2081945         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val	Client ID: BG19-01 2.0'	Batc	h ID: <b>B6</b>	1408	RunNo: 61408						
Jenzine       0.72       0.019       0.7564       0       94.6       63.9       127         Soluene       0.74       0.038       0.7564       0.003139       98.0       69.9       131         Sthylenzene       0.72       0.038       0.7564       0       95.6       71       132         Sylenzene       0.72       0.038       0.7564       0       95.6       71       132         Sylenzene       0.76       2.269       0       95.4       71.8       131         Sur: 4-Bromofluorobenzene       0.76       0.7564       99.9       80       120         Sample ID:       1907726-002AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081945       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Venzene       0.69       0.019       0.7564       0       91.0       63.9       <	Prep Date:	Analysis [	Date: 7/	16/2019	SeqNo: 2081944 Units: mg/Kg				٢g		
Toluene       0.74       0.038       0.7564       0.003139       98.0       69.9       131         Stithylbenzene       0.72       0.038       0.7564       0       95.6       71       132         Sylenes, Total       2.2       0.076       2.269       0       95.4       71.8       131         Sur: 4-Bromofluorobenzene       0.76       0.7564       0       95.4       71.8       131         Sample ID: 1907726-002AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch       D:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       716/2019       SeqNo:       2081945       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gluene       0.69       0.019       0.7564       0       91.0       63.9       131       5.51       20         Gluene       0.69       0.038       0.7564       0       91.2       71       132       4.67       20         Gluene       0	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene       0.72       0.038       0.7564       0       95.6       71       132         Kylenes, Total       2.2       0.076       2.269       0       95.4       71.8       131         Surr: 4-Bromofluorobenzene       0.76       0.7564       99.9       80       120         Sample ID: 1907726-002AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles         Client ID:       BG19-01 2.0'       Batch ID: B61408       RunNo: 61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo: 2081945       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Jenzene       0.69       0.019       0.7564       0       91.0       63.9       127       3.88       20         Soluene       0.70       0.038       0.7564       0       91.0       63.9       127       3.88       20         Sthylbenzene       0.69       0.038       0.7564       0       91.2       71       132       4.67       20         Sthylbenzene       0.69       0.038       0.7564       0       91.2	Benzene	0.72	0.019	0.7564	0	94.6	63.9	127			
Kylenes, Total       2.2       0.076       2.269       0       95.4       71.8       131         Surr: 4-Bromofluorobenzene       0.76       0.7564       99.9       80       120         Sample ID:       1907726-002AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081945       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Jenzene       0.69       0.019       0.7564       0       91.0       63.9       127       3.88       20         Soluene       0.70       0.038       0.7564       0.003139       92.7       69.9       131       5.51       20         Sthylbenzene       0.69       0.038       0.7564       0       91.2       71       132       4.67       20         Kylenes, Total       2.1       0.076       2.269       0       91.6       71.8       131       4.06	Toluene	0.74	0.038	0.7564	0.003139	98.0	69.9	131			
Surr: 4-Bromofluorobenzene         0.76         0.7564         99.9         80         120           Sample ID: 1907726-002AMSD         SampType: MSD         TestCode: EPA Method 8021B: Volatiles           Client ID:         BG19-01 2.0'         Batch ID: B61408         RunNo: 61408           Prep Date:         Analysis Date:         7/16/2019         SeqNo: 2081945         Units: mg/Kg           Analyte         Result         PQL         SPK xelue         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Venzene         0.69         0.019         0.7564         0         91.0         63.9         127         3.88         20           Soluene         0.69         0.038         0.7564         0.003139         92.7         69.9         131         5.51         20           Sthylbenzene         0.69         0.038         0.7564         0         91.2         71         132         4.67         20           Sthylbenzene         2.1         0.076         2.269         0         91.6         71.8         131         4.06         20	Ethylbenzene	0.72	0.038	0.7564	0	95.6	71	132			
Sample ID:       1907726-002AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081945       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.69       0.019       0.7564       0       91.0       63.9       127       3.88       20         'oluene       0.70       0.038       0.7564       0.003139       92.7       69.9       131       5.51       20         'thylbenzene       0.69       0.038       0.7564       0       91.2       71       132       4.67       20         Kylenes, Total       2.1       0.076       2.269       0       91.6       71.8       131       4.06       20	Xylenes, Total	2.2	0.076	2.269	0	95.4	71.8	131			
Client ID:       BG19-01 2.0'       Batch ID:       B61408       RunNo:       61408         Prep Date:       Analysis Date:       7/16/2019       SeqNo:       2081945       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.69       0.019       0.7564       0       91.0       63.9       127       3.88       20         Solutione       0.70       0.038       0.7564       0.003139       92.7       69.9       131       5.51       20         Sthylbenzene       0.69       0.038       0.7564       0       91.2       71       132       4.67       20         Sthylbenzene       2.1       0.076       2.269       0       91.6       71.8       131       4.06       20	Surr: 4-Bromofluorobenzene	0.76		0.7564		99.9	80	120			
Prep Date:         Analysis Date:         7/16/2019         SeqNo:         2081945         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.69         0.019         0.7564         0         91.0         63.9         127         3.88         20           Foluene         0.70         0.038         0.7564         0         91.2         69.9         131         5.51         20           Sthylbenzene         0.69         0.038         0.7564         0         91.2         71         132         4.67         20           Stylenes, Total         2.1         0.076         2.269         0         91.6         71.8         131         4.06         20	Sample ID: 1907726-002AMS	SD Samp	Гуре: <b>МS</b>	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.69         0.019         0.7564         0         91.0         63.9         127         3.88         20           Soluene         0.70         0.038         0.7564         0.003139         92.7         69.9         131         5.51         20           Sthylbenzene         0.69         0.038         0.7564         0         91.2         71         132         4.67         20           Sylenes, Total         2.1         0.076         2.269         0         91.6         71.8         131         4.06         20	Client ID: BG19-01 2.0'	Batc	h ID: <b>B6</b>	1408	F	RunNo: <b>6</b> '	1408				
Benzene         0.69         0.019         0.7564         0         91.0         63.9         127         3.88         20           Ioluene         0.70         0.038         0.7564         0.003139         92.7         69.9         131         5.51         20           Sthylbenzene         0.69         0.038         0.7564         0         91.2         71         132         4.67         20           Sylenes, Total         2.1         0.076         2.269         0         91.6         71.8         131         4.06         20	Prep Date:	Analysis [	Date: 7/	16/2019	S	SeqNo: 2	081945	Units: <b>mg/ł</b>	٢g		
Toluene0.700.0380.75640.00313992.769.91315.5120Ethylbenzene0.690.0380.7564091.2711324.6720Kylenes, Total2.10.0762.269091.671.81314.0620	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ithylbenzene0.690.0380.7564091.2711324.6720(ylenes, Total2.10.0762.269091.671.81314.0620	Benzene	0.69	0.019	0.7564	0	91.0	63.9	127	3.88	20	
ylenes, Total 2.1 0.076 2.269 0 91.6 71.8 131 4.06 20	Toluene	0.70	0.038	0.7564	0.003139	92.7	69.9	131	5.51	20	
	Ethylbenzene	0.69	0.038	0.7564	0	91.2	71	132	4.67	20	
Surr: 4-Bromofluorobenzene         0.74         0.7564         98.2         80         120         0         0	Xylenes, Total	2.1	0.076	2.269	0	91.6	71.8	131	4.06	20	
	Surr: 4-Bromofluorobenzene	0.74		0.7564		98.2	80	120	0	0	

#### Qualifiers:

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

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

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	WO#:	1907726
ll Environmental Analysis Laboratory, Inc.		18-Jul-19

Client:Devon HProject:Apache	Energy 25 Fed 3									
Sample ID: RB     SampType: MBLK     TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batc	h ID: <b>B6</b>	1407	F	RunNo: 6	1407				
Prep Date:	Analysis [	Date: 7/	16/2019	5	SeqNo: 2	081992	Units: mg/k	íg		
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	4 000				100			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID: 100NG BTEX LC	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: LCSS	Batc	h ID: <b>B6</b>	1407	F	RunNo: 6	1407				
Prep Date:	Analysis [	Date: 7/	16/2019	S	SeqNo: 2	081993	Units: mg/k	g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			
Sample ID: 1907726-012AM	S Samp	Гуре: <b>МS</b>	6	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: TP19-08 1.0'	Batc	h ID: <b>B6</b>	1407	F	RunNo: 6	1407				
Prep Date:	Analysis [	Date: 7/	16/2019	5	SeqNo: 2	081994	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.019	0.7752	0	99.4	63.9	127			
Toluene	0.81	0.039	0.7752	0	105	69.9	131			
Ethylbenzene	0.82	0.039	0.7752	0	105	71	132			
Xylenes, Total	2.4	0.078	2.326	0	105	71.8	131			
Surr: 4-Bromofluorobenzene	0.78		0.7752		101	80	120			
Sample ID: 1907726-012AM	SD Samp	Гуре: <b>МS</b>	SD.	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: TP19-08 1.0'	Batc	h ID: <b>B6</b>	1407	F	RunNo: 6	1407				
Prep Date:	Analysis [	Date: 7/	16/2019	5	SeqNo: 2	081995	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.019	0.7752	0	103	63.9	127	3.78	20	
Toluene	0.82	0.039	0.7752	0	106	69.9	131	1.17	20	
Ethylbenzene	0.81	0.039	0.7752	0	105	71	132	0.829	20	
Xylenes, Total	2.4	0.078	2.326	0	103	71.8	131	1.73	20	
Surr: 4-Bromofluorobenzene	0.79		0.7752		101	80	120	0	0	

#### **Qualifiers:**

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

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

HALL ENVIRONN ANALYSIS LABORATO		TE	ll Environmer L: 505-345-3 Website: www	490 Albuquerq 975 FAX:	1 Hawk ue, NM 505-34.	ins NE 87109 <b>S</b> 5-4107	am	ple Log-In Che	eck List
Client Name: DEV	ON ENERGY	Work	Order Num	ber: <b>190</b>	7726			RcptNo: 1	
	h Baca h Baca ) M		19 9:15:00 / 19 9:22:01 /			Lad St Lad St	Baen Baen		
Chain of Custody									
1. Is Chain of Custody	complete?			Yes		No [		Not Present	
2. How was the sample				Cou					
Log In						_ 5.6			
3. Was an attempt ma	de to cool the samp	les?		Yes		No			
4. Were all samples re	ceived at a tempera	ture of >0° C	to 6.0°C	Yes	~	No [			
5. Sample(s) in proper	container(s)?			Yes	~	No [			
6. Sufficient sample vo	lume for indicated to	est(s)?		Yes		No [			
7. Are samples (except	VOA and ONG) pr	operly preserve	ed?	Yes	~	No			
8. Was preservative ac	ded to bottles?			Yes		No 💌	/	NA 🗌	
9. VOA vials have zero	headspace?			Yes		No [		No VOA Vials 🗹	
10. Were any sample c	ontainers received b	oroken?		Yes		No No	~		
								# of preserved bottles checked	
11. Does paperwork ma				Yes	~	No 🗌		for pH:	
(Note discrepancies							-	(<2 or >12 Adjusted?	untess noted)
12. Are matrices correct				Yes		No [	-	Aujusteur	
13. Is it clear what analy		17		Yes				Charlend buy DAF	7/11/10
14. Were all holding time (If no, notify custome				Yes		No 🗌		Checked by: DAT	5 7/16/19
Special Handling (	f applicable)								
15. Was client notified o	of all discrepancies	with this order	?	Yes		No		NA 🔽	
Person Notifie	d:		Date	<b></b>					
By Whom:	, [		Via:	eM	ail 🗌	Phone	Fax	In Person	
Regarding:	Ī								
Client Instruct	ions:								
16. Additional remarks									
17. <u>Cooler Informatio</u>	n								
	mp °C Condition	Seal Intact	Seal No	Seal D	ate	Signed By	y		
1 4.7	Good	Yes		ton mine inne time.	No. of the second second	J	de moi -		

Page 1 of 1

	Chain-of-Custody Record	Turn-Around Time:			HALL ENV	ENVIRONMENTAL
Series Thrue and the transmission         Project Name:         Multiplenvironmentation           Series Thrue and the transmission         Project Name:         Multiplenvironmentation           Project Name:         Project Name:         Project Name:         Multiplenvironmentation           Project Name:         Project Name:         Project Name:         Multiplenvironmentation           Project Name:         Project Name:         Project Name:         Multiplenviron           Reservative         Project Name:         Project Name:         Multiplenviron           Bullisher         Bampler Andrea         Project Name:         Multiplenviron           Bullisher         Bullisher         Stander Andrea         Multiplenviron           Bullisher         Bullisher         Project Name:         Multiplenviron           Bullisher         Bullisher         Bullisher         Bullisher         Multiplenviron           Bullisher         Bullisher         Displet Name:         Multi         Multi         Multi	evon		VAN SAME DAN	A		LABORATO
Surry Runs HW       Muccu D Fed S       Multimered for the standard for the		1		>	ww.hallenvironm	tental.com
Project #: I 7E- 00575         Tel. 606-345-307         Fax. 306-345-407           Manager:         I 7E- 00575         Fax. 306-345-407           Manager:         Diget:         Manager:         Manager:           Manager:         Diget:         Diget:         Manager:           Manager:         Manager:         Manager:         Manager:           Manager:         Diget:         Diget:         Diget:           Manager:         Manager:         Manager:         Manager:           Manager:         Manager:         Manager: <td< td=""><td>Seven Rivas</td><td></td><td></td><td>4901 Hawkir</td><td>1</td><td>rque, NM 87109</td></td<>	Seven Rivas			4901 Hawkir	1	rque, NM 87109
Mail value     Project Manager:       Project Manager:     Project Manager:       Mail All All     Project Manager:       Bample:     Project Manager:       Mail All All     Project Manager:       Bample:     Project Manager:       Mail All All     Project Manager:       Mail All All All     Project Manager:       Mail All All All All All All All All All A		Project #:		Tel. 505-34		05-345-4107
Mar. Com       Project Manager:       Project Manager:       Manager: $Parmi ran Comus Milliams       Parmi ran Covertex. Call       11 Validation)       Parmi ran Covertex. Call       11 Validation)         Sampler:       Parmi ran Covertex. Call       Parmi ran Covertex. Call       11 Validation)       Parmi ran Covertex. Call       11 Validation)         Sampler:       Parmi ran Covertex. Call       No       No       No       No       No         # dof Coolers:       On these:       Dolor Termportation       U, 4 K       K       Secondant       Particle Stores CBNs       No         D: O'       1 JAR       1 CE       -0.00       X       X       Secon VOA.N       Secondant       Prosentive Stores Metals         D: O'       1 JAR       1 CE       -0.00       X       X       No       Secon VOA.N         D: O'       1 JAR       1 CE       -0.00       X       X       No       Secon VOA.N         D: O'       1 JAR       1 CE       -0.00       X       X       No       Secon VOA.N         D: O'       1 JAR       1 CE       -0.00       X       X       No       No       No         D: O'       0.01       X       X       X       No$	575-748-0176	176-0057	2		Anal	kequest
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	n.				<sup>†</sup> 09	(tu
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	kage:		lliams	ям 8'8;		əsq
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Permisn @	vertex.cq	bC SO \		A\tr
Image: Contrainer         Onloc:         Preservative         Onloc:         Preservative         Container         # of Coolers:         U, L,		Sampler: Austin	HARRIS	חם / 280 (1.		_
# of Coolest:         (1)         # of Coolest:         (1)           Matrix         Sample Name         Cooler Temperations: $U_1 + C_1 + C$		24	D No	08/s	S	
Matrix         Sample Name         Cooler Temposumects: $U, t \in T, t \notin A$ The Second se	/be)_	l e	and the second second	Relation (GR	stals 601	_
Matrix         Sample Name         Container         Preservative         HEAL No.         Each P. Preservative         HEAL No. $S_{a}/I$ $Bu15-o1$ $Tope$ and $\#$ $Type$ $Tope$ and $\#$ $Type$ $Preservative$ $Prer$		Cooler Temp(including CF):	4.6+ ct. r 4.7 C	etho etho	r, Ne	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Matrix		190	PH:80	B ARDS	
$B617-01$ $2.0^{\circ}$ $X$ $X$ $X$ $X$ $7817-01$ $0.5^{\circ}$ $-003$ $X$ $X$ $X$ $Y$ $7817-02$ $0.5^{\circ}$ $-003$ $X$ $X$ $X$ $Y$ $7817-02$ $0.5^{\circ}$ $-003$ $X$ $X$ $X$ $Y$ $7817-03$ $0.5^{\circ}$ $-0004$ $X$ $X$ $X$ $X$ $7817-03$ $0.5^{\circ}$ $-0004$ $X$ $X$ $X$ $X$ $7817-02$ $0.5^{\circ}$ $-0003$ $X$ $X$ $X$ $X$ $7817-02$ $0.5^{\circ}$ $-0010$ $X$ $X$ $X$ $X$ $7817-06$ $5^{\circ}$ $-010$ $X$ $X$ $X$ $X$ $7817-06$ $5^{\circ}$ $-010$ $X$ $X$ $X$ $X$ $7817-06$ $5^{\circ}$ $-010$ $X$ $X$ $X$ $X$ $7179-06$ $5^{\circ}$ $-010$ $X$ $X$ $X$ $X$ $7179-06$ $5^{\circ}$ <td>5011 3619-01</td> <td>-</td> <td>9 T</td> <td>DK</td> <td></td> <td>_</td>	5011 3619-01	-	9 T	DK		_
TP17-01       0.5'       -003       ×       ×       ×         TP19-02       0.5'       -003       ×       ×       ×       ×         TP19-02       0.5'       -003       ×       ×       ×       ×       ×         TP19-02       0.5'       -004       ×       ×       ×       ×       ×       ×         TP19-02       0.5'       -004       ×	3619-01	-	- 002		X	
TP19-02       0,5'       -004       ×	7919-01		-003	-	X	
TP19 - 03       0.5'       0.05 $\chi\chi$ $\chi$ $\chi$ $\chi$ TP19 - 05       1.0' $\chi\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 05       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 05       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 15       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 15       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 15       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ TP19 - 17       1.0' $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ $\chi$ Relinquished by $\chi$ </td <td>7919-02</td> <td></td> <td>-004</td> <td></td> <td>X</td> <td></td>	7919-02		-004		X	
TP19-09       1.0'       TP19-05       1.0'       X	7919-03		- 005		X	
TP17-05       1.0'       TP17-05       1.0' $-0.03$ $\times$ </td <td>TP19-04</td> <td></td> <td>- 006</td> <td></td> <td>X</td> <td></td>	TP19-04		- 006		X	
TP15 - 09       0.5       1       -0.8 $X$ $X$ $X$ $X$ TP15 - 10       0.5'       0.5'       0.0 $X$ $X$ $X$ $X$ $X$ TP19 - 15       1.0' $V$ $-010$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $V$ $V$ $-010$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $V$ $V$ $-010$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $A$ $X$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $A$ $X$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $A$ $X$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $A$ $X$ $X$ $X$ $X$ $X$ $X$ $X$ Relinquished by: $A$ $X$	7P19-05		- 007	-	X	
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Received by OCD: 5/10/2023	9:55:53 AM		Page 156 of 161
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) 10tal Coliform (Present/Absent) Total Coliform (Present/Absent)		7: $\mathcal{P}$ And $\mathcal{P}$ $\mathcal{T}$ Time $\mathcal{P}$ $\mathcal{T}$ 1 $\mathcal{O}$ $\mathcal{O}$ $\mathcal{P}$ as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
AL M 01 Hawkins al. 505-345-	EDB (Method 504 1)		Any sub-o
490'	(1503) МТВЕ / ТМВ's (8021)	Remarks:	3.5 Section 1.
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Client: Deven Client: Deven Mailing Address: 6488 Seven River NWY Artheria, NM 88210 Phone #: 575-749-0176	email or Fax#: amanda . davis@dvn.com QA/QC Package: CA/QC Package: Candard Level 4 (Full Validation) Accreditation: Daz Compliance NELAC Other Devel 4 (Full Validation) Accreditation: Date Compliance Date Time Matrix Sample Name 2/10 [1:35 SolL 7P19-12 1.0'	13:20 17719-06 1. 13:45 77719-071. 13:26 77719-152. 13:36 77719-152. 14:00 77719-142 15:36 77919-133	7/[3/[1] 7:3     0.000       Pate:     Time:       Relinquished by:     Received by:       N3/15     10/0       If necessary, emples sybmitted to Hall Exmonmental may be subcontracted to after accredited laboratories

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Oil Conservation Division

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Incident IDNAB1914252088District RP2RP-5435Facility IDfAB1914250820Application IDpAB19250914

### Site Assessment/Characterization

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

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

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

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

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

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

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			Incident ID	NAB1914252088
Page 4	Oil Conservation Division		District RP	2RP-5435
			Facility ID	fAB1914250820
			Application ID	pAB1914250914
regulations all operator public health or the env failed to adequately inv addition, OCD accepta and/or regulations. Printed Name: <u>Ama</u>	inda Trujillo Davis	tifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele e operator of liability sh ce water, human health liance with any other fe al Representative	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		Date:		

Received by OCD: 5/10/2023 9:55:53 AM Form C-141 State of New Mexico

Incident ID	NAB1914252088
District RP	2RP-5435
Facility ID	fAB1914250820
Application ID	pAB1914250914

## **Remediation Plan**

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

**x** Detailed description of proposed remediation technique

**X** Scaled sitemap with GPS coordinates showing delineation points

**x** Estimated volume of material to be remediated

Page 5

X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

X 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 con	firmed as part of any request for deferral of remediation					
Deterrar Requests Only. Each of the following tems must be confirmed as part of any request for deferrat 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: Amanda Davis	Title: Environmental Representative					
Signature: Amanda Trujillo Davis	Date: 12/19/2019					
email:amanda.davis@dvn.com	Telephone: <u>575-748-0176</u>					
OCD Only						
Received by:	Date:					
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved					
Signature:	Date:					

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Oil Conservation Division

Incident ID	NAB1914252088
District RP	2RP-5435
Facility ID	fAB1914250820
Application ID	pAB1914250914

# Closure

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

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

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

X 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)

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

X 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: Amanda Davis	Title: Environmental Representative					
Signature: Amanda Trujillo Davis	Date: 12/19/2019					
email: _amanda.davis@dvn.com	Telephone: <u>575-748-0176</u>					
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:						

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

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

District III

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

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

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

CONDITIONS

Operator: 0	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	215495
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAB1914252088 APACHE 25 FEDERAL #3 BATTERY, thank you. This closure is approved. 10/2/2023 rhamlet

CONDITIONS

Action 215495

Condition Date