

Form C-141

State of New Mexico  
Oil Conservation Division

Page 5

Incident ID	nAPP2213248307
District RP	
Facility ID	
Application ID	

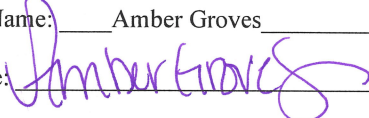
## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 7/18/2022  
email: agroves@durangomidstream.com Telephone: 575-703-7992

**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: 10/12/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A



WSP USA  
3300 North "A" Street  
Building 1, Unit 222  
Midland, Texas 79705  
432.704.5178

Table of Contents

RELEASE BACKGROUND ..... 2

- Site Location
- Release Information

SITE CHARACTERIZATION ..... 3

- Site Receptors

CLOSURE CRITERIA ..... 3

SITE ASSESSMENT AND DELINEATION ACTIVITIES..... 3

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS ..... 4

CLOSURE REQUEST ..... 5

Attachments: ..... 6

- Figure 1A, 1B, 1C
- Figure 2
- Figure 3
- Table
- Photo Log
- Laboratory Data
- Field Notes
- Initial C-141



District II  
Page 2

August 9, 2022

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

**RE: Closure Request  
8" Cedar Breaks  
Incident Number nAPP2213248307  
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of Frontier Field Services, LLC (Frontier), presents the following Closure Request detailing the site assessment, excavation, and soil sampling activities performed at the 8" Cedar Breaks (32.77276, -103.88556) (Site) in Unit P, Section 5, Township 18 South, Range 31 East, in Eddy County, New Mexico (Figure 1A). This site resides on federal land managed by the Bureau of Land Management (BLM). The purpose of this site assessment, excavation and soil sampling was to address impacts to soil following the release of condensate and natural gas from an internally and externally corroded pipeline at the Site. Based on the excavation activities and soil sample laboratory analytical results, Frontier is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2213248307.

## **RELEASE BACKGROUND**

On May 12, 2022, internal and external corrosion of a pipeline resulted in the release of 8.34 barrels (bbls) of condensate and 46,890 cubic feet (Mcf) of natural gas. Frontier the owner, and operator of the site, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release notification Form C-141 on May 12, 2022 (Attachment 5). The release was assigned incident Number nAPP2213248307.

Following the release, initial excavation of impacted soil (via visual observation) was undertaken by a third party contracted by Frontier. The impacted soil was transported and properly disposed of at the Lea Land Landfill Facility under Frontier-approved manifests. After the completion of initial excavation activities, the excavated area was secured with fencing.



## SITE CHARACTERIZATION

WSP characterized the site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the site is estimated to be over 100 feet below ground surface (bgs) based on the nearest United States Geological Survey (USGS) well 324502103495801 which is located approximately 17,997 feet southeast of the site. The USGS water well has a reported depth to groundwater of 380 feet bgs and a total depth of 400 feet bgs. The referenced well record is included in Attachment 1.

The closest significant watercourse to the site is an intermittent riverine, located approximately 4,179 feet northwest of the site. The site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland (Figure 1C). The site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (Figure 1B). The site is likely not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1A.

## CLOSURE CRITERIA

Based on the results of the site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total TPH: 100 mg/kg
- Chloride: 600 mg/kg

A reclamation closure criterion of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the subsurface, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On June 9, 2022, WSP personnel visited the site to evaluate the release extent and subsequent excavation activities that were overseen by Frontier, based on information provided on the Form C-141, visual observations and field screening activities. Four preliminary surface samples (SS01 – SS04) were collected outside the excavation extent at a depth of 0.5 feet bgs to assess the lateral extent of impacted soil (Figure 2). WSP also collected initial 5-point composite soil samples at the locations of FS01, FS02 and SW01 – SW03 at depths ranging from 0 – 4 feet bgs to determine if additional remediation of impacted soil was warranted. These soil samples were then field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-





ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively (Attachment 4). Based on visual observations and field screening activities further excavation activities were warranted to remove additional impacted soil. These initial composite soil samples collected by WSP were not submitted for laboratory analysis.

## **EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS**

On June 14 – 15, 2022, WSP personnel returned to the site to oversee further removal of impacted soil from the release extent. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively.

Following removal of impacted soil, WSP collected 5-point composite confirmation samples from every 200 square feet from the floor and sidewalls of the extended excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 and FS02 were collected from the floor of the excavation at a depth of 6 feet bgs. Composite sidewall soil samples SW01 – SW03 were collected at depths ranging from 0 to 6 feet bgs. The excavation extent and 5-point composite soil sample locations are presented in Figure 3. Photographic documentation was completed during WSP excavation activities, and a photographic log is included in Attachment 2.

The final excavation area measured approximately 340 square feet in lateral extent at a depth of 6 feet bgs. A total of approximately 76 cubic yards of impacted soil was removed throughout excavation activities. The impacted soil was transported and properly disposed of at the Lea Land disposal in Carlsbad, New Mexico. Manifests pertaining to contaminated soil disposal can be made available upon request. Following completion of confirmation sampling, the excavation area was backfilled and recontoured to match preexisting site conditions. the Site will be reseeded with a BLM approved seed mixture (BLM seed mix #2) at BLM approved application rates. Re-seeding will be performed in the fall or early spring to take advantage of seasonal moisture, with the end goal of establishing revegetation consistent with local natural vegetation density.

Laboratory analytical results from the confirmation soil sampling indicate that the site soils are compliant with the NMOC Table 1 Closure Criteria. Analytical results for soil sample FS01 is non-detectable (ND) for benzene, BTEX, TPH and contains 25.8 mg/kg of chloride. FS02 is ND for benzene, BTEX and contains 30.5 mg/kg of TPH and 164 mg/kg of chloride. SW01 is ND for benzene, BTEX, TPH and chloride and SW02 is ND for benzene, BTEX, TPH and chloride. SW03 is ND for benzene, BTEX, TPH and contains 20.2 mg/kg of chloride. Therefore, the laboratory analytical results for all confirmation soil samples indicated that benzene (10 mg/kg), BTEX (50 mg/kg), TPH (100 mg/kg), and chloride (600 mg/kg) Closure Criteria are met. Laboratory

District II  
Page 5

analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 3.

## CLOSURE REQUEST

WSP, on behalf of Frontier, conducted site assessment and excavation activities to address the May 12, 2022 release of condensate and natural gas at the Site. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicate that benzene, BTEX, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria and no further remediation is required. Frontier backfilled the excavation with locally sourced, non-waste containing material and recontoured the Site to match pre-existing site conditions, and will re-seed the disturbance area in the fall or spring based on BLM guidelines.

Initial response efforts and excavation of impacted soil have mitigated impacts at the site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Frontier respectively request closure of nAPP2213248307 based on the analytical results described in this report, since they are protective of human health, the environment, and groundwater.

If you have any questions or comments, please do not hesitate to contact Mr. Michael J. Bombard, PG, CHG at (916) 521-9059.

Sincerely,

WSP USA Inc.

Sincerely,

A handwritten signature in blue ink, reading 'Matthew Yousif'.

Matthew Yousif  
Assistant Consultant, Geologist

A handwritten signature in blue ink, reading 'Michael J. Bombard'.

Michael J. Bombard, PG, CHG  
Senior Lead Consultant, Hydrogeologist

cc:

Bureau of Land Management



District II  
Page 6

**Attachments:**

Figure 1A      Site Location Map  
Figure 1B      FEMA Flood Plain Map  
Figure 1C      Wetland Map  
Figure 2      Preliminary Soil Sample Location  
Figure 3      Excavation Soil Sample Locations  
Table 1      Soil Analytical Results  
Attachment 1 Referenced Well Records  
Attachment 2 Photographic Log  
Attachment 3 Laboratory Analytical Reports  
  
Attachment 4 Field Notes  
  
Attachment 5 Initial C-141

FIGURES

TABLES

ATTACHMENT 1: REFERENCED WELL RECORD



ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

ATTACHMENT 3: PHOTOGRAPHIC LOG

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

ATTACHMENT 5: [ADD TITLE]

FIGURES

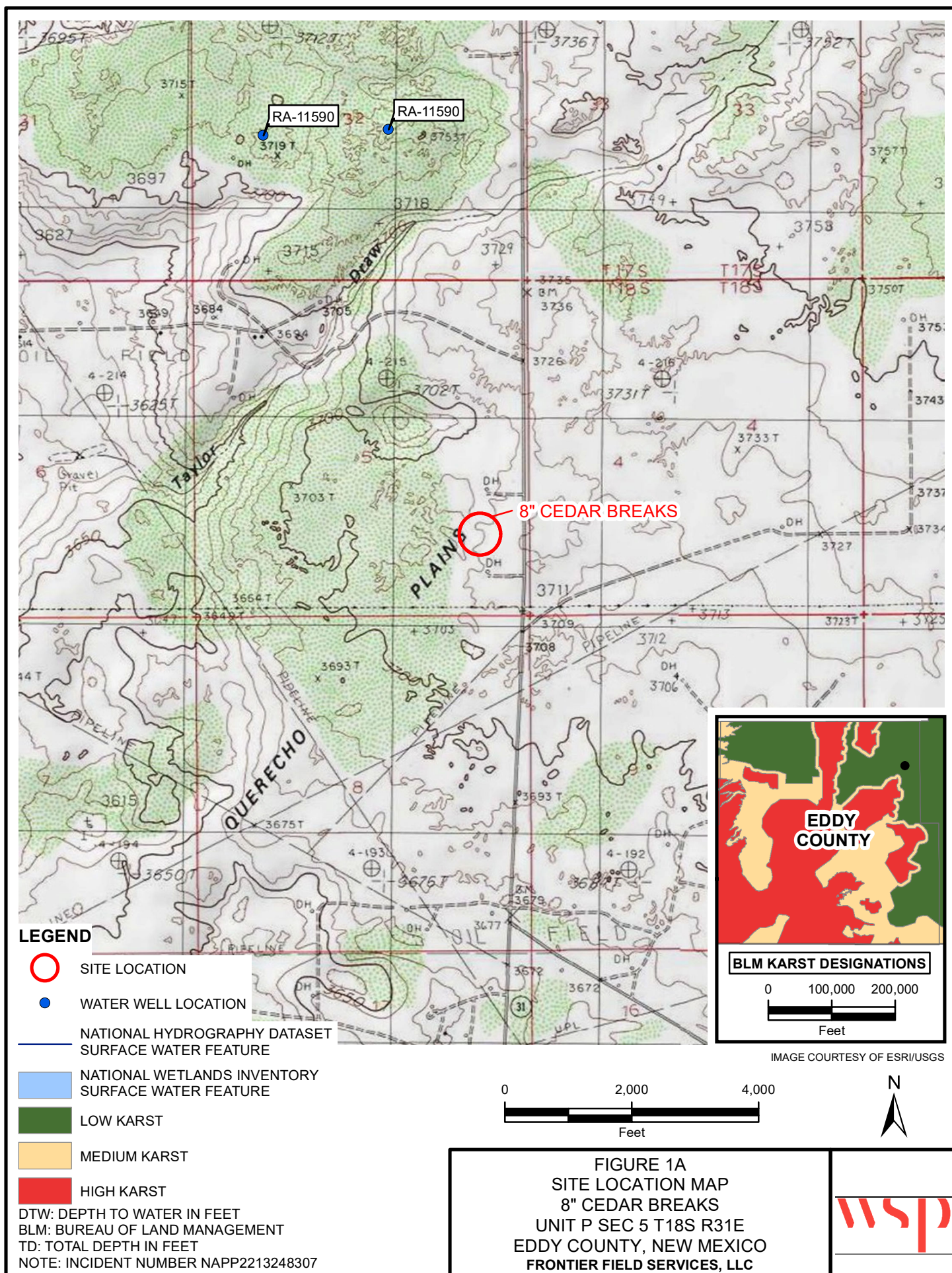






IMAGE COURTESY OF GOOGLE EARTH 2017

**LEGEND**



SITE LOCATION

**FEMA NATIONAL FLOOD HAZARD (NFHL)**

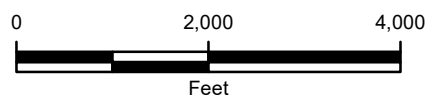


100-YEAR FLOODPLAIN



AREA OF MINIMAL FLOOD HAZARD

NOTE: INCIDENT NUMBER NAPP2213330681  
FEMA: FEDERAL EMERGENCY MANAGEMENT AGENCY



**FIGURE 1B**  
**FEMA FLOODPLAIN MAP**  
**MAL 12-27-2 ARCO 5 FED #1**  
**UNIT A SEC 6 T18S R31E**  
**EDDY COUNTY, NEW MEXICO**  
**FRONTIER FIELD SERVICES, LLC**

**wsp**

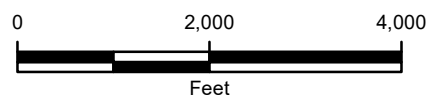




IMAGE COURTESY OF GOOGLE EARTH 2017

**LEGEND**

-  SITE LOCATION
- NATIONAL WETLANDS INVENTORY (NWI)**
-  RIVERINE
-  500-FOOT RELEASE BUFFER



NOTE: INCIDENT NUMBER NAPP2213330681

**FIGURE 1C**  
**NWI WETLANDS MAP**  
**MAL 12-27-2 ARCO 5 FED #1**  
**UNIT A SEC 6 T18S R31E**  
**EDDY COUNTY, NEW MEXICO**  
**FRONTIER FIELD SERVICES, LLC**

**wsp**



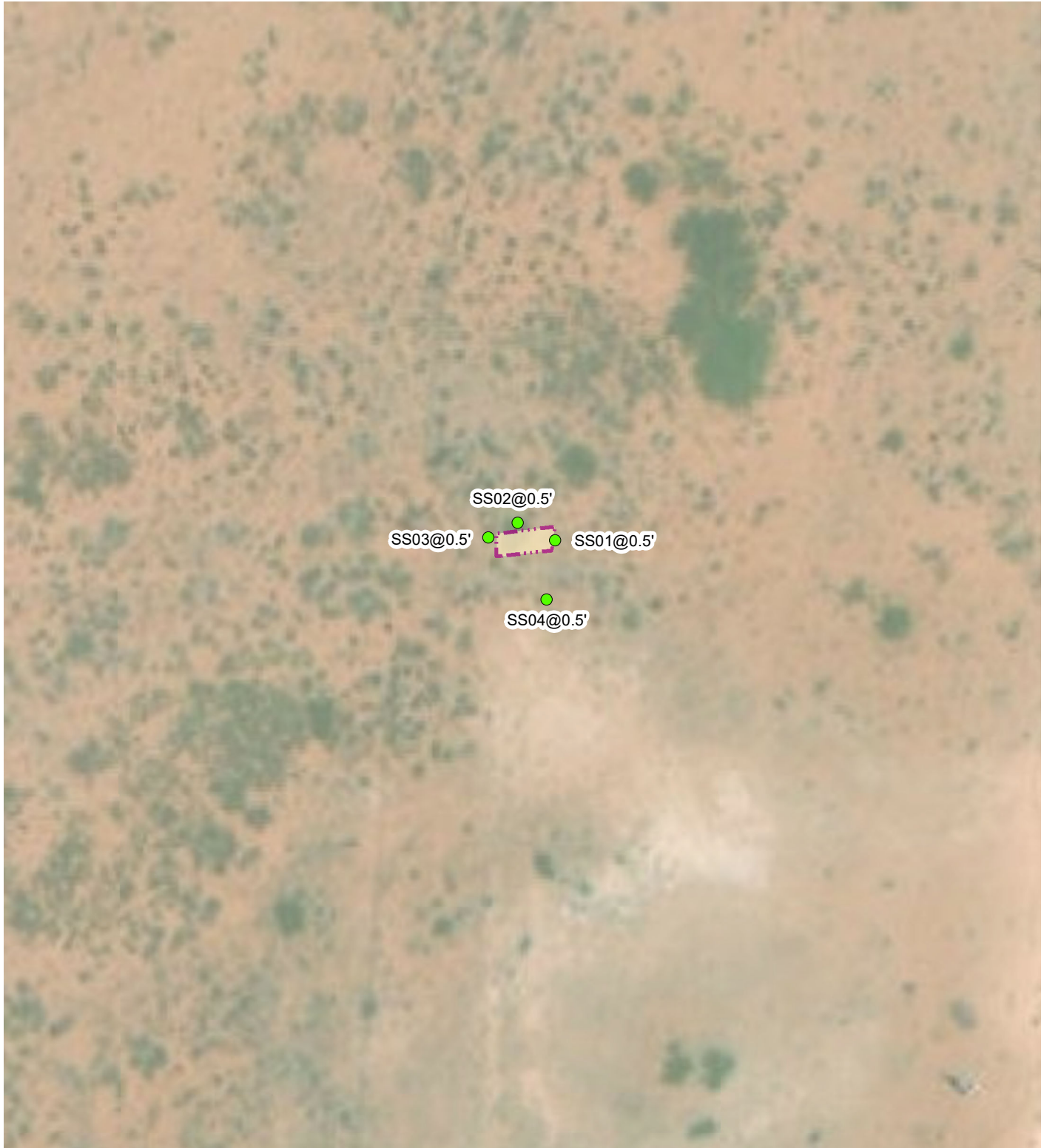


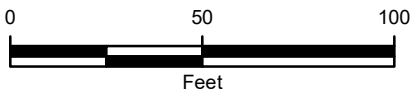


IMAGE COURTESY OF ESRI

**LEGEND**

-  PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  RELEASE EXTENT



NOTE: INCIDENT NUMBER nAPP2213248307  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**PRELIMINARY SOIL SAMPLE LOCATIONS**  
**8" CEDAR BREAKS**  
**UNIT P SEC 5 T18S R31E**  
**EDDY COUNTY, NEW MEXICO**  
**FRONTIER FIELD SERVICES, LLC**





**LEGEND**



FLOOR SAMPLE IN COMPLIANCE  
WITH APPLICABLE CLOSURE CRITERIA



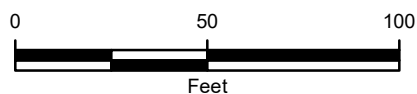
SIDEWALL SAMPLE IN COMPLIANCE  
WITH APPLICABLE CLOSURE CRITERIA



EXCAVATION EXTENT

NOTE: INCIDENT NUMBER nAPP2213248307  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI



**FIGURE 3**  
**EXCAVATION SOIL SAMPLE LOCATIONS**  
**8" CEDAR BREAKS**  
**UNIT P SEC 5 T18S R31E**  
**EDDY COUNTY, NEW MEXICO**  
**FRONTIER FIELD SERVICES, LLC**



TABLES

Table 1

Soil Analytical Results  
8" Cedar Breaks  
Incident Number: NAPP2213248307  
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	NE	NE	NE	NE	<b>100</b>	<b>600</b>
<b>Preliminary Soil Samples</b>										
SS01	06/09/2022	0.5	0.0289	0.1889	99.7	ND	ND	99.7	99.7	50.5
SS02	06/09/2022	0.5	0.0298	0.0298	33.6	ND	ND	33.6	33.6	140
SS03	06/09/2022	0.5	ND	ND	35.9	ND	ND	35.9	35.9	51
SS04	06/15/2022	0.5	ND	ND	ND	ND	ND	ND	ND	ND
<b>Excavation Floor Samples</b>										
FS01	06/15/2022	6	ND	ND	ND	ND	ND	ND	ND	25.8
FS02	06/15/2022	6	ND	ND	30.5	ND	ND	30.5	30.5	164
<b>Excavation Sidewall Samples</b>										
SW01	06/15/2022	0-6	ND	ND	ND	ND	ND	ND	ND	ND
SW02	06/15/2022	0-6	ND	ND	ND	ND	ND	ND	ND	ND
SW03	06/15/2022	0-6	ND	ND	ND	ND	ND	ND	ND	20.2

**Notes:**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

ND: Non Detectable

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard

Greyed data represents samples that were excavated







# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					
		(quarters are smallest to largest)		(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>
		<b>X</b>	<b>Y</b>				
CP 00566	POD1	4	4	1	04	18S	32E
		614960	3627280*				

---

**Driller License:** 46      **Driller Company:** ABBOTT BROTHERS COMPANY

**Driller Name:** ABBOTT, MURRELL

**Drill Start Date:** 06/01/1977      **Drill Finish Date:** 06/03/1977      **Plug Date:**

**Log File Date:** 06/13/1977      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:** 6.63      **Depth Well:** 133 feet      **Depth Water:** 65 feet

---

**Water Bearing Stratifications:**

<b>Top</b>	<b>Bottom</b>	<b>Description</b>
65	133	Sandstone/Gravel/Conglomerate

---

**Casing Perforations:**

<b>Top</b>	<b>Bottom</b>
65	133

\*UTM location was derived from PLSS - see Help

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

5/31/22 3:30 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

WR File Number: CP 00566

Subbasin: CP

Cross  
Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 3

Cause/Case: -

Owner: B.E. FRIZZELL

### Documents on File


[get images](#)

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
474209	72121	1977-05-18	PMT	APR	CP 00566	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4SecTwsRng	X	Y	Other Location Desc
CP 00566 POD1		Shallow	4	4	1	04 18S 32E	614960 3627280*

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

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

5/31/22 3:30 PM

WATER RIGHT  
SUMMARY



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## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:


Groundwater

Geographic Area:

United States

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- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

## Search Results -- 1 sites found

site\_no list =

- 324502103495801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 324502103495801 18S.31E.14.22133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°45'02", Longitude 103°49'58" NAD27

Land-surface elevation 3,736 feet above NAVD88

The depth of the well is 400 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

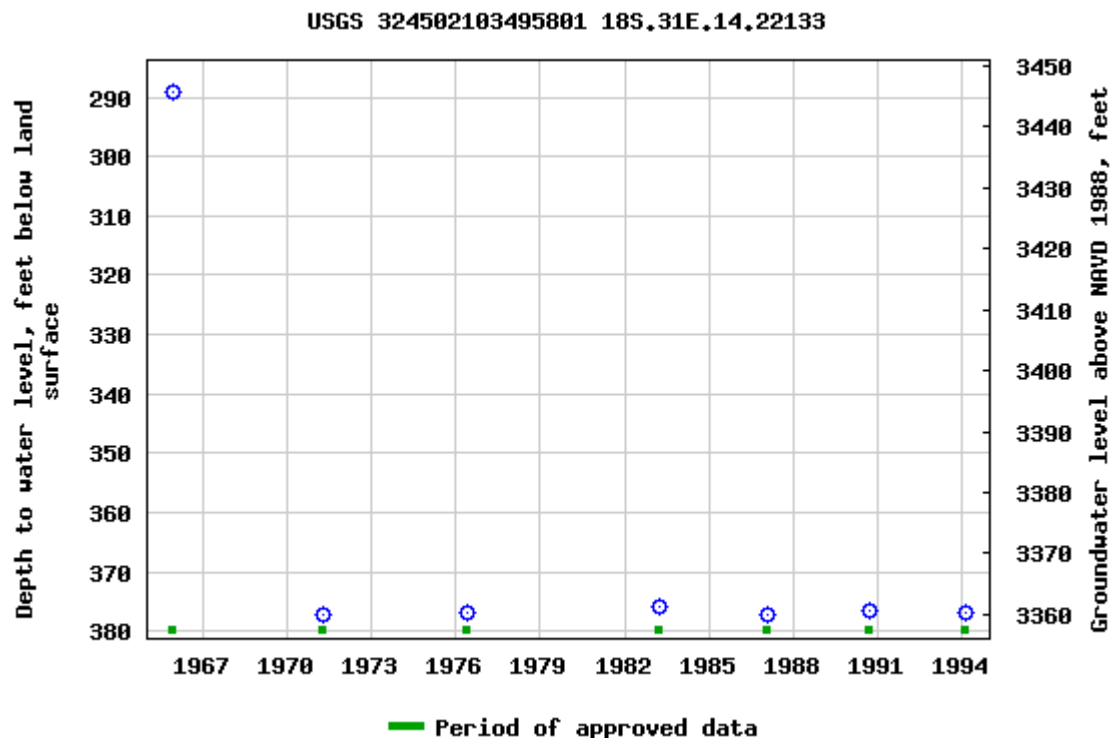
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[Table of data](#)

[Tab-separated data](#)

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[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-05-31 17:25:01 EDT

0.55 0.48 nadww02





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## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:


Site Information ▼

Geographic Area:

United States ▼

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## USGS 324502103495801 18S.31E.14.22133

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

### Well Site

#### DESCRIPTION:

Latitude 32°45'02", Longitude 103°49'58" NAD27  
Eddy County, New Mexico , Hydrologic Unit 13060011  
Well depth: 400 feet  
Land surface altitude: 3,736 feet above NAVD88.  
Well completed in "Other aquifers" (N9999OTHER) national aquifer.  
Well completed in "Chinle Formation" (231CHNL) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1965-12-08	1994-03-07	7
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: NWIS Site Information for USA: Site Inventory**

**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324502103495801)  
[agency\\_code=USGS&site\\_no=324502103495801](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324502103495801)**



Page Contact Information: [New Mexico Water Data Support Team](#)


Page Last Modified: 2022-05-31 17:24:17 EDT

0.26 0.25 caww02



**PHOTOGRAPHIC LOG**

<b>Frontier Field Services</b>	<b>8" Cedar Breaks Eddy County, NM</b>	<b>nAPP2213248307</b>
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<b>Photo No.</b>	<b>Date</b>	
1	May 26, 2022	
View of initial excavation extent before WSP assessment facing west.		 A photograph showing a deep, narrow excavation pit in reddish-brown soil. A large, dark, cylindrical object, likely a pipe, is visible in the center of the pit. The pit is surrounded by orange plastic safety fencing. The background shows more of the excavation area and some sparse vegetation.


<b>Photo No.</b>	<b>Date</b>	
2	June 15, 2022	
View of final excavation extent facing west		 A photograph showing a wider view of the excavation pit. The pit is filled with reddish-brown soil and a large, dark, cylindrical object (pipe) is visible in the center. The pit is surrounded by orange plastic safety fencing. In the background, there are some trees, a building, and a clear blue sky with some clouds.



**PHOTOGRAPHIC LOG**

<b>Frontier Field Services</b>	<b>8" Cedar Breaks Eddy County, NM</b>	<b>nAPP2213248307</b>
--------------------------------	--	-----------------------

<b>Photo No.</b>	<b>Date</b>	
3	June 15, 2022	
View of final excavation extent facing east		 A photograph showing a deep, rectangular excavation pit in reddish-brown soil. A large, dark, cylindrical object, likely a pipe, lies horizontally across the center of the pit. The pit is surrounded by a dirt road and sparse vegetation. In the background, there are utility poles and a white vehicle.

<b>Photo No.</b>	<b>Date</b>	
4	July 5, 2022	
View of backfilled excavation facing south		 A photograph showing a wide, flat area of reddish-brown soil, which appears to be the backfilled excavation site. The ground is uneven with some tire tracks. In the background, there are utility poles, a white vehicle, and some vegetation.



## PHOTOGRAPHIC LOG

Frontier Field Services	8" Cedar Breaks Eddy County, NM	nAPP2213248307
-------------------------	------------------------------------	----------------

Photo No.	Date	
5	July 5, 2022	
View of backfilled excavation facing west		A photograph showing a wide, flat, reddish-brown dirt area, likely a backfilled excavation. The ground is uneven with some tire tracks. In the background, there is a line of low-lying vegetation and utility poles under a blue sky with scattered white clouds.





Report to:  
Travis Casey



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Frontier Field Services

Project Name: 8" Cedar Break

Work Order: E206075

Job Number: 21080-0001

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/17/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/17/22



Travis Casey  
10077 Grogan Mill Rd Ste 300  
The Woodlands, TX 77380

Project Name: 8" Cedar Break  
Workorder: E206075  
Date Received: 6/14/2022 11:23:00AM

Travis Casey,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 11:23:00AM, under the Project Name: 8" Cedar Break.

The analytical test results summarized in this report with the Project Name: 8" Cedar Break apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 @ 0.5 ft	5
SS02 @ 0.5 ft	6
SS03 @ 0.5 ft	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Frontier Field Services	Project Name:	8" Cedar Break	Reported:  06/17/22 16:12
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 @ 0.5 ft	E206075-01A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
SS02 @ 0.5 ft	E206075-02A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
SS03 @ 0.5 ft	E206075-03A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/17/2022 4:12:34PM

## SS01 @ 0.5 ft

## E206075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	0.0289	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	0.160	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	0.160	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	103 %	70-130		06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225027	
Diesel Range Organics (C10-C28)	99.7	25.0	1	06/14/22	06/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/17/22	
<i>Surrogate: n-Nonane</i>						
	85.9 %	50-200		06/14/22	06/17/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	50.5	20.0	1	06/14/22	06/15/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/17/2022 4:12:34PM

SS02 @ 0.5 ft

E206075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	<b>0.0298</b>	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	<b>0.0298</b>	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2225015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.8 %	70-130	06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2225027	
Diesel Range Organics (C10-C28)	<b>33.6</b>	25.0	1	06/14/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/16/22	
<i>Surrogate: n-Nonane</i>						
		87.3 %	50-200	06/14/22	06/16/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2225018	
Chloride	<b>140</b>	20.0	1	06/14/22	06/15/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/17/2022 4:12:34PM

SS03 @ 0.5 ft

E206075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Benzene	ND	0.0250	1	06/14/22	06/16/22	
Ethylbenzene	ND	0.0250	1	06/14/22	06/16/22	
Toluene	ND	0.0250	1	06/14/22	06/16/22	
o-Xylene	ND	0.0250	1	06/14/22	06/16/22	
p,m-Xylene	ND	0.0500	1	06/14/22	06/16/22	
Total Xylenes	ND	0.0250	1	06/14/22	06/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2225015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/22	06/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.1 %	70-130	06/14/22	06/16/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2225027
Diesel Range Organics (C10-C28)	35.9	25.0	1	06/14/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/16/22	
<i>Surrogate: n-Nonane</i>						
		89.5 %	50-200	06/14/22	06/16/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2225018
Chloride	51.0	20.0	1	06/14/22	06/15/22	



## QC Summary Data

Frontier Field Services	Project Name:	8" Cedar Break	<b>Reported:</b>
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	6/17/2022 4:12:34PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225015-BLK1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

## LCS (2225015-BS1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.52	0.0250	5.00		90.3	70-130			
Toluene	4.77	0.0250	5.00		95.3	70-130			
o-Xylene	4.72	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.29	0.0500	10.0		92.9	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

## LCS Dup (2225015-BS1)

Prepared: 06/14/22 Analyzed: 06/16/22

Benzene	5.06	0.0250	5.00		101	70-130	3.91	20	
Ethylbenzene	4.69	0.0250	5.00		93.9	70-130	3.90	20	
Toluene	4.96	0.0250	5.00		99.1	70-130	3.90	20	
o-Xylene	4.90	0.0250	5.00		98.1	70-130	3.92	20	
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130	3.85	20	
Total Xylenes	14.6	0.0250	15.0		97.1	70-130	3.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



## QC Summary Data

Frontier Field Services	Project Name:	8" Cedar Break	Reported:
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	6/17/2022 4:12:34PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225015-BLK1)

Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			

## LCS (2225015-BS2)

Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.4	70-130			

## LCS Dup (2225015-BSD2)

Prepared: 06/14/22 Analyzed: 06/16/22

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130	3.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			



## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	Reported: 6/17/2022 4:12:34PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225027-BLK1)

Prepared: 06/14/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			

## LCS (2225027-BS1)

Prepared: 06/14/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	485	25.0	500		97.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			

## Matrix Spike (2225027-MS1)

Source: E206081-23

Prepared: 06/14/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.7	38-132			
Surrogate: n-Nonane	42.2		50.0		84.5	50-200			

## Matrix Spike Dup (2225027-MSD1)

Source: E206081-23

Prepared: 06/14/22 Analyzed: 06/16/22

Diesel Range Organics (C10-C28)	490	25.0	500	ND	98.0	38-132	2.31	20	
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			





## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/17/2022 4:12:34PM
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## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2225018-BLK1)

Prepared: 06/14/22 Analyzed: 06/15/22

Chloride ND 20.0

## LCS (2225018-BS1)

Prepared: 06/14/22 Analyzed: 06/15/22

Chloride 259 20.0 250 104 90-110

## Matrix Spike (2225018-MS1)

Source: E206075-01

Prepared: 06/14/22 Analyzed: 06/15/22

Chloride 312 20.0 250 50.5 105 80-120

## Matrix Spike Dup (2225018-MSD1)

Source: E206075-01

Prepared: 06/14/22 Analyzed: 06/15/22

Chloride 311 20.0 250 50.5 104 80-120 0.298 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Frontier Field Services	Project Name:	8" Cedar Break	
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Travis Casey	06/17/22 16:12

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

## Project Information

EMAIL: [payton.benner@wsp.com](mailto:payton.benner@wsp.com)

## Chain of Custody

Page 1 of 1

Client: Frontier Field Services				Bill To				Lab Use Only				TAT				EPA Program			
Project: 8" Cedar Break				Attention: Frontier Field Services				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Travis Casey				Address: 10077 Gorgan's Mills Rd Suite 300				E260075		21080-0001				X	X				
Address: 508 West Stevens Street.				City, State, Zip The Woodlands, Tx 77380				Analysis and Method										RCRA	
City, State, Zip Carlsbad, NM 88220				Phone: 575-703-7992															
Phone: 575-689-5949				Email: AGroves@durangomidstream.com															
Email: Travis.casey@wsp.com																			
Report due by: 5 Days, 6/16/22																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX						
11:05	6/9/22	S	1	SS01 @ 0.5 ft	1							X							
11:10	6/9/22	S	1	SS02 @ 0.5 ft	2							X							
11:15	6/9/22	S	1	SS03 @ 0.5 ft	3							X							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature) <i>[Signature]</i> Date 6/19/22 Time 4:30										Received by: (Signature) <i>[Signature]</i> Date 6/10/22 Time 1:30									
Relinquished by: (Signature) <i>[Signature]</i> Date 6/10/22 Time 4:15										Received by: (Signature) <i>[Signature]</i> Date 6/14/22 Time 11:23									
Relinquished by: (Signature) <i>[Signature]</i> Date <i>[Blank]</i> Time <i>[Blank]</i>										Received by: (Signature) <i>[Signature]</i> Date <i>[Blank]</i> Time <i>[Blank]</i>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

## Envirotech Analytical Laboratory

Printed: 6/15/2022 2:45:54PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Frontier Field Services	Date Received:	06/14/22 11:23	Work Order ID:	E206075
Phone:	(575) 676-3500	Date Logged In:	06/14/22 11:23	Logged In By:	Alexa Michaels
Email:	travis.casey@wsp.com	Due Date:	06/17/22 17:00 (3 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPS**Comments/Resolution**

( Discrete ) is in the remarks section of the COC

**Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Travis Casey



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Frontier Field Services

Project Name: 8" Cedar Break

Work Order: E206133

Job Number: 21080-0001

Received: 6/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/23/22

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)



Date Reported: 6/23/22



Travis Casey  
10077 Grogan Mill Rd Ste 300  
The Woodlands, TX 77380

Project Name: 8" Cedar Break  
Workorder: E206133  
Date Received: 6/17/2022 10:00:00AM

Travis Casey,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/17/2022 10:00:00AM, under the Project Name: 8" Cedar Break.

The analytical test results summarized in this report with the Project Name: 8" Cedar Break apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW01 @ 0 - 6 ft	5
SW02 @ 0 - 6 ft	6
SW03 @ 0 - 6 ft	7
FS01 @ 6 ft	8
FS02 @ 6 ft	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

## Sample Summary

Frontier Field Services	Project Name:	8" Cedar Break	<b>Reported:</b> 06/23/22 14:08
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 @ 0 - 6 ft	E206133-01A	Soil	06/15/22	06/17/22	Glass Jar, 4 oz.
SW02 @ 0 - 6 ft	E206133-02A	Soil	06/15/22	06/17/22	Glass Jar, 4 oz.
SW03 @ 0 - 6 ft	E206133-03A	Soil	06/15/22	06/17/22	Glass Jar, 4 oz.
FS01 @ 6 ft	E206133-04A	Soil	06/15/22	06/17/22	Glass Jar, 4 oz.
FS02 @ 6 ft	E206133-05A	Soil	06/15/22	06/17/22	Glass Jar, 4 oz.





## Sample Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/23/2022 2:08:01PM
--	---	---

### SW01 @ 0 - 6 ft

#### E206133-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226031
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226031
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2226044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
Surrogate: n-Nonane	116 %	50-200		06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226030
Chloride	ND	20.0	1	06/21/22	06/22/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/23/2022 2:08:01PM

SW02 @ 0 - 6 ft

E206133-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2226044	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2226030	
Chloride	ND	20.0	1	06/21/22	06/22/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/23/2022 2:08:01PM

SW03 @ 0 - 6 ft

E206133-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2226044	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
<i>Surrogate: n-Nonane</i>		124 %	50-200	06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2226030	
Chloride	20.2	20.0	1	06/21/22	06/22/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/23/2022 2:08:01PM

## FS01 @ 6 ft

## E206133-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226031
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.4 %	70-130	06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226031
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.6 %	70-130	06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2226044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2226030
Chloride	25.8	20.0	1	06/21/22	06/22/22	



## Sample Data

Frontier Field Services  
10077 Grogan Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 8" Cedar Break  
Project Number: 21080-0001  
Project Manager: Travis Casey

**Reported:**  
6/23/2022 2:08:01PM

## FS02 @ 6 ft

## E206133-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.1 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2226044	
Diesel Range Organics (C10-C28)	30.5	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
<i>Surrogate: n-Nonane</i>	122 %	50-200		06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2226030	
Chloride	164	20.0	1	06/21/22	06/22/22	



## QC Summary Data

Frontier Field Services	Project Name:	8" Cedar Break	<b>Reported:</b>
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	6/23/2022 2:08:01PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226031-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

## LCS (2226031-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.1	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.94	0.0250	5.00		98.7	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			

## LCS Dup (2226031-BSD1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	5.27	0.0250	5.00		105	70-130	0.343	20	
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130	0.683	20	
Toluene	5.08	0.0250	5.00		102	70-130	0.510	20	
o-Xylene	4.96	0.0250	5.00		99.3	70-130	0.549	20	
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130	0.693	20	
Total Xylenes	14.8	0.0250	15.0		98.9	70-130	0.645	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			





## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/23/2022 2:08:01PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226031-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

## LCS (2226031-BS2)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

## LCS Dup (2226031-BSD2)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		99.9	70-130	9.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	Reported: 6/23/2022 2:08:01PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226044-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.3		50.0		129	50-200			

## LCS (2226044-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	504	25.0	500		101	38-132			
Surrogate: n-Nonane	58.6		50.0		117	50-200			

## Matrix Spike (2226044-MS1)

Source: E206132-25

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	520	25.0	500	ND	104	38-132			
Surrogate: n-Nonane	64.7		50.0		129	50-200			

## Matrix Spike Dup (2226044-MSD1)

Source: E206132-25

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	529	25.0	500	ND	106	38-132	1.79	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/23/2022 2:08:01PM
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## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226030-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Chloride	ND	20.0							
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## LCS (2226030-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Chloride	246	20.0	250		98.5	90-110			
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## Matrix Spike (2226030-MS1)

Source: E206133-01

Prepared: 06/21/22 Analyzed: 06/22/22

Chloride	253	20.0	250	ND	101	80-120			
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## Matrix Spike Dup (2226030-MSD1)

Source: E206133-01

Prepared: 06/21/22 Analyzed: 06/22/22

Chloride	250	20.0	250	ND	100	80-120	1.38	20	
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Frontier Field Services	Project Name:	8" Cedar Break	
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Travis Casey	06/23/22 14:08

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

## Project Information

EMAIL: payton.benner@wsp.com

## Chain of Custody

Page 1 of 1

Client: Frontier Field Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: 8" Cedar Break		Attention: Frontier Field Services		Lab WO# <u>E200133</u>		Job Number <u>21080-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Travis Casey		Address: 10077 Gorgan's Mills Rd Suite 300								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Address: 508 West Stevens Street.		City, State, Zip The Woodlands, Tx 77380											RCRA
City, State, Zip Carlsbad, NM 88220		Phone: 575-703-7992											
Phone: 575-689-5949		Email: AGroves@durangomidstream.com											
Email: Travis.casey@wsp.com													
Report due by: 5 Days, 6/21/22													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
12:10	6/15/22	S	1	SW01 @ 0 - 6 ft	1						X			Composite
10:50	6/15/22	S	1	SW02 @ 0 - 6 ft	2						X			Composite
13:00	6/15/22	S	1	SW03 @ 0 - 6 ft	3						X			Composite
12:00	6/15/22	S	1	FS01 @ 6 ft	4						X			Composite
10:40	6/15/22	S	1	FS02 @ 6 ft	5						X			Composite

## Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
		6/16/22	10:40			6/16/22	11:50	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1	
		6-16-22	3:45			6/17/22	10:00	T2	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3	
								AVG Temp °C <u>4</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

## Envirotech Analytical Laboratory

Printed: 6/20/2022 12:50:38PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Frontier Field Services	Date Received:	06/17/22 10:00	Work Order ID:	E206133
Phone:	(575) 676-3500	Date Logged In:	06/17/22 10:29	Logged In By:	Caitlin Christian
Email:	travis.casey@wsp.com	Due Date:	06/23/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/Resolution

(Composite) is listed in the remarks section of COC.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Travis Casey



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Frontier Field Services

Project Name: 8" Cedar Break

Work Order: E206135

Job Number: 21080-0001

Received: 6/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/23/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/23/22



Travis Casey  
10077 Grogan Mill Rd Ste 300  
The Woodlands, TX 77380

Project Name: 8" Cedar Break  
Workorder: E206135  
Date Received: 6/17/2022 10:00:00AM

Travis Casey,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/17/2022 10:00:00AM, under the Project Name: 8" Cedar Break.

The analytical test results summarized in this report with the Project Name: 8" Cedar Break apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS04 @ 0.5 ft	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Frontier Field Services	Project Name:	8" Cedar Break	Reported:
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	06/23/22 16:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04 @ 0.5 ft	E206135-01A	Solid	06/15/22	06/17/22	Glass Jar, 4 oz.



## Sample Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/23/2022 4:23:54PM
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**SS04 @ 0.5 ft**

**E206135-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Benzene	ND	0.0250	1	06/21/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/21/22	
Toluene	ND	0.0250	1	06/21/22	06/21/22	
o-Xylene	ND	0.0250	1	06/21/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.3 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2226031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.6 %	70-130		06/21/22	06/21/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2226043	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/22	06/22/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/22	06/22/22	
<i>Surrogate: n-Nonane</i>	116 %	50-200		06/21/22	06/22/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2226028	
Chloride	ND	100	5	06/21/22	06/22/22	



## QC Summary Data

Frontier Field Services	Project Name:	8" Cedar Break	Reported:
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	6/23/2022 4:23:54PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226031-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

## LCS (2226031-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.1	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.94	0.0250	5.00		98.7	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			

## LCS Dup (2226031-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Benzene	5.27	0.0250	5.00		105	70-130	0.343	20	
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130	0.683	20	
Toluene	5.08	0.0250	5.00		102	70-130	0.510	20	
o-Xylene	4.96	0.0250	5.00		99.3	70-130	0.549	20	
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130	0.693	20	
Total Xylenes	14.8	0.0250	15.0		98.9	70-130	0.645	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			





## QC Summary Data

Frontier Field Services	Project Name:	8" Cedar Break	<b>Reported:</b> 6/23/2022 4:23:54PM
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Travis Casey	

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226031-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

## LCS (2226031-BS2)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

## LCS Dup (2226031-BSD2)

Prepared: 06/21/22 Analyzed: 06/22/22

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		99.9	70-130	9.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	Reported: 6/23/2022 4:23:54PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226043-BLK1)

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.0		50.0		118	50-200			

## LCS (2226043-BS1)

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	473	25.0	500		94.5	38-132			
Surrogate: n-Nonane	58.8		50.0		118	50-200			

## Matrix Spike (2226043-MS1)

Source: E206136-02

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	526	25.0	500	52.2	94.8	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			

## Matrix Spike Dup (2226043-MSD1)

Source: E206136-02

Prepared: 06/21/22 Analyzed: 06/22/22

Diesel Range Organics (C10-C28)	529	25.0	500	52.2	95.4	38-132	0.621	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			



## QC Summary Data

Frontier Field Services 10077 Grogan Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 8" Cedar Break Project Number: 21080-0001 Project Manager: Travis Casey	<b>Reported:</b> 6/23/2022 4:23:54PM
--	---	---

## Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2226028-BLK1)

Prepared: 06/21/22 Analyzed: 06/21/22

Chloride ND 20.0

## LCS (2226028-BS1)

Prepared: 06/21/22 Analyzed: 06/21/22

Chloride 253 20.0 250 101 90-110

## Matrix Spike (2226028-MS1)

Source: E206113-01

Prepared: 06/21/22 Analyzed: 06/21/22

Chloride 265 20.0 250 ND 106 80-120

## Matrix Spike Dup (2226028-MSD1)

Source: E206113-01

Prepared: 06/21/22 Analyzed: 06/21/22

Chloride 252 20.0 250 ND 101 80-120 5.04 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Frontier Field Services	Project Name:	8" Cedar Break	
10077 Grogan Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Travis Casey	06/23/22 16:23

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

## Project Information

EMAIL: payton.benner@wsp.com

## Chain of Custody

Page 1 of 1

Client: Frontier Field Services		<b>Bill To</b>		Lab Use Only		TAT		EPA Program					
Project: 8" Cedar Break		Attention: Frontier Field Services		Lab WO# <u>E206135</u>		Job Number <u>21080-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Travis Casey		Address: 10077 Gorgan's Mills Rd Suite 300											
Address: 508 West Stevens Street.		City, State, Zip The Woodlands, Tx 77380											RCRA
City, State, Zip Carlsbad, NM 88220		Phone: 575-703-7992											
Phone: 575-689-5949		Email: AGroves@durangomidstream.com											
Email: Travis.casey@wsp.com													
Report due by: 5 Days, <u>6/21/22</u>													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
13:25	6/15/22	S	1	SS04 @ 0.5 ft	1						X			Composite

## Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6/16/22</u>	Time <u>10:40</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6-16-22</u>	Time <u>11:30</u>	Lab Use Only Received on ice: <u>(Y)</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6-16-22</u>	Time <u>3:45</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6/17/22</u>	Time <u>10:00</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Envirotech Analytical Laboratory

Printed: 6/17/2022 12:22:55PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Frontier Field Services	Date Received:	06/17/22 10:00	Work Order ID:	E206135
Phone:	(575) 676-3500	Date Logged In:	06/17/22 10:36	Logged In By:	Caitlin Christian
Email:	travis.casey@wsp.com	Due Date:	06/23/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.





14

Location

8" Cedar

Date

6/9

Project / Client

8:45 Leave Office  
 9:35 Arrive on site  
 9:40 JSA signed  
 9:45 Start work  
 10:05 Leave site

15

Location

Date

Project / Client

Name	Depth	Time	TPH	CI	Comments
FS01	4'	10:20	45.3	14,901	
FS02	4'	10:25	175.0	7,974	
SW01	0-4'	10:30	75.7	20,552	
SW02	0-4'	10:35	209.1	10,102	
SS01	.5'	11:05	5.1	N/D	
SS02	.5'	11:10	3.2	162.4	
SS03	.5'	11:15	1.8	N/D	

Rite in the Rain

ATTACHMENT 5: Initial C-141

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2213248307
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

### Location of Release Source

Latitude 32.77276 Longitude -103.88556  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 8" Cedar Breaks	Site Type Pipeline
Date Release Discovered 5/12/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	5	18S	31E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 8.34	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 46.89	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release  
Internal and external corrosion.



Incident ID	nAPP2213248307
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?          

### Initial Response

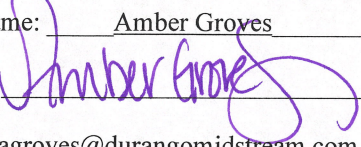
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ 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: Amber Groves Title: Remediation Specialist  
Signature:  Date: 5/12/2022  
email: agroves@durangomidstream.com Telephone: (575)703-7992

#### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_





## Liquid Volume Release Report

Liquid Release Volume Calculator								
Date:		5/12/2022						
Site or Line Name:		8" Cedar Breaks						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type	
Clay	0.15				0	0.00	Clay	
Sandy Clay	0.12				0	0.00	Sandy Clay	
Silt	0.16				0	0.00	Silt	
Fine Sand	0.16				0	0.00	Fine Sand	
Medium Sand	0.25				0	0.00	Medium Sand	
Coarse Sand	0.26				0	0.00	Coarse Sand	
Gravely Sand	0.26	15	3	4	180	8.34	Gravely Sand	
Fine Gravel	0.26				0	0.00	Fine Gravel	
Medium Gravel	0.20				0	0.00	Medium Gravel	
Coarse Gravel	0.18				0	0.00	Coarse Gravel	
Sandstone	0.25				0	0.00	Sandstone	
Siltstone	0.18				0	0.00	Siltstone	
Limestone	0.13				0	0.00	Limestone	
Basalt	0.19				0	0.00	Basalt	
Standing Liquids	X				0	0.00	Standing Liquids	

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)





## Gas Volume Release Report

Gas Release Volume Calculator		
Date:	5/12/2022	
Site or Line Name:	8" Cedar Breaks	
Area of hole in pipe:	0.25	square inches
Absolute Pressure:	46.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Temperature:	92	Degrees F
Absolute Pressure:	46.7	psia (Gauge Pressure + 14.7)
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - SCF	46.89	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		

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

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

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

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

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

CONDITIONS

Action 132671

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132671
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/12/2022