

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	nAPP2222822822
District RP	
Facility ID	
Application ID	

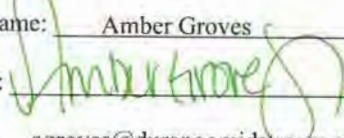
## Closure

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 OCD 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: 11/3/2022  
email: agroves@durangomidstream.com Telephone: 575-703-7992

### OCD Only

Received by: Robert Hamlet Date: 1/25/2023

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: Robert Hamlet Date: 1/25/2023  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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	nAPP2222822822
District RP	
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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 32.788931 Longitude -104.160235  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Abo Plant to Coyote 12" Steel Line Receiver	Site Type Pipeline
Date Release Discovered 8/8/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	34	17S	28E	Eddy

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

### 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) 3	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 9,396.73	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Unknown ignition source ignited a fire at receiver facility.



Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2222822822
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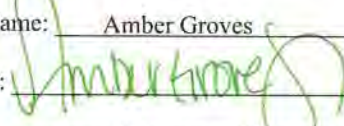
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**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
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- ☒ Description of remediation activities

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Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 11/3/2022  
email: agroves@durangomidstream.com Telephone: 575-703-7992

**OCD Only**

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

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Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Received by OCD: 8/18/2022 3:28:48 PM

Page 1 of 5

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Incident ID	NAPP2223049065
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Apache Corporation	OGRID 873
Contact Name Larry Baker	Contact Telephone 432-215-2284
Contact email larry.baker@apachecorp.com	Incident # (assigned by OCD)
Contact mailing address 303 Veterans Airpark Lane Midland, TX 79705	

### Location of Release Source

Latitude 32.788981 Longitude -104.160229  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name D State 85-88	Site Type Flow lines
Date Release Discovered 8/8/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	34	17S	28E	Eddy

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

### Nature and Volume of Release

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

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

Cause of Release 4 surface lines associated with the D State 85,86,87,88 and three emulsion line were damaged due to a fire caused by third party operator.

Released to Imaging: 8/19/2022 9:26:12 AM

Released to Imaging: 1/25/2023 9:41:05 AM



Incident ID	nAPP2223049065
District RP	
Facility ID	
Application ID	

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Printed Name: Larry Baker Title: Environmental Tech Sr. Staff

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: larry.baker@apachecorp.com Telephone: 432-215-2284

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



November 7, 2022

Vertex Project #: 22E-02945

**Spill Closure Report:** Abo Plant to Coyote 12" Steel Line Receiver (Section 34, Township 17 South, Range 28 East)  
County: Eddy  
Incident Reports: nAPP2222822822 and nAPP2223049065

**Prepared For:** **Frontier Field Services, LLC**  
47 Conoco Road  
Maljamar, New Mexico 88264

**New Mexico Oil Conservation Division - District 2 - Eddy**  
811 South 1<sup>st</sup> Street  
Artesia, New Mexico 88210

Frontier Field Services, LLC (Frontier) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of natural gas, condensate, and produced water at the receiver facility named Abo Plant to Coyote 12" Steel Line Receiver, Incident nAPP2222822822 and nAPP2223049065. Frontier and Apache provided notification of the spill to New Mexico Oil Conservation Division (NMOCD) District 2, and the private landowner, via an initial C-141 Release Notifications. This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.788931, W -104.160235.

## Background

The site is located approximately 10.71 miles west of Loco Hills, New Mexico (Google Inc., 2022). The legal location for the site is Section 34, Township 17 South and Range 28 East in Eddy County, New Mexico. The spill area is located on private property. An aerial photograph and site schematic are included in Figure 1, Attachment 1.

*The Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2022) indicates the site's surface geology is comprised primarily of Qoa – Older alluvial deposits of upland plains and piedmont areas and is characterized as mixed alluvium and eolian sands. The Natural Resources Conservation Service *Web Soil Survey* characterizes the predominant soil texture on the site is Kimbrough-Stegall loams complex. It tends to be well drained with very high runoff and very low available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

The surrounding landscape is associated with plains, and alluvial fans at elevations of 2,750 to 5,000 feet above sea level. The climate is semi-arid, with an annual precipitation ranging between 8 to 16 inches. Historically, the plant community has grassland aspect, dominated by grasses with shrubs. Black grama is dominant and sideoats grama as the subdominant with a mixture of blue grama, bush muhly, sand dropseed, and threeawns. Overgrazing and extended drought can reduce grass cover (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7  
[vertex.ca](http://vertex.ca)



**Frontier Field Services, LLC**

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

**2022 Spill Assessment and Closure**

November 2022

Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018), is the Pecos River located approximately 9.5 miles west northwest of the site (United States Fish and Wildlife Service, National Wetlands Inventory, 2022). There are no continuous flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

**Incident Description**

The spill occurred on August 8, 2022, due to an unknown ignition source igniting a fire at the receiver facility and melted polylines owned by Apache. The spill was reported on August 9, 2022 and involved the release of approximately 3 barrels (bbl.) of condensate and 9,396.73 Mcf of natural gas at the facility and surrounding pastureland. Approximately 0 bbl. of free fluid was removed during initial spill clean-up. Characterization of the release area was completed during the excavation process. Field screens and laboratory analysis results are provided in Table 2, Attachment 2. The New Mexico Oil Conservation Division (NMOCD) C-141 Reports: nAPP2222822822 and nAPP2223049065 is included in Attachment 3. The daily field report and site photographs are included in Attachment 4.

**Closure Criteria Determination**

The depth to groundwater was determined using information from the National Water Information System on the United State Geological Survey website and New Mexico Office of the State Engineer POD locations. A 0.5-mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 257 feet below ground surface (bgs) and 1.17 miles from the site (United States Geological Survey, National Water Information System: Mapper, 2022). Documentation used in Closure Criteria Determination research is included in Attachment 5.

## Frontier Field Services, LLC

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

## 2022 Spill Assessment and Closure

November 2022

Closure Criteria Worksheet			
Site Name: Coyote 12" Steel Line			
Spill Coordinates:		X: 32.788931	Y: -104.160235
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	257	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	51,146	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	17,923	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	20,167	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	6,236	feet
	ii) Within 1000 feet of any fresh water well or spring	6,236	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	5,696	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	Zone X Unshaded	year
11	Soil Type	Kimbrough-Stegall loams	
12	Ecological Classification	Kimbrough	
13	Geology	Qoa	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

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3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001



**Frontier Field Services, LLC**

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

**2022 Spill Assessment and Closure**

November 2022

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

<b>Table 1. Closure Criteria for Soils Impacted by a Release</b>		
<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
<b>&lt; 50 feet</b>	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - Total dissolved solids, TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO), BTEX - Benzene, toluene, ethylbenzene, and xylenes

### Remedial Actions Taken

An initial site inspection of the spill area was completed on August 18, 2022, which identified the area of the spill specified in the initial C-141 Reports, estimated the approximate square footage of the area and began remediation efforts based off surface staining. The impacted area was determined to be approximately 263 feet long and 147 feet wide; the total affected area was determined to be 9,638 square feet. The daily field report associated with the site inspection is included in Attachment 3.

Remediation efforts began on August 18, 2022 and were completed on October 19, 2022. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on multiple sample points and consisted of analysis using a photo ionization detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electromagnetic conductivity meter (chlorides). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to a depth of 8 feet bgs. Additional remediation was completed on October 19, 2022 to assess samples above criteria and is further described below. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening and laboratory analysis results are included in Table 2 (Attachment 2).

Notification that confirmatory samples were being collected was provided to the NMOCD on September 2, 7, 19, 23 and 30 and October 14, 2022 and are included in Attachment 6. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 126 samples were collected for laboratory analysis following NMOCD soil sampling procedures and with an additional three samples recollected with additional remediation completed. Samples were submitted to under chain-of-custody (COC) protocols and analyzed for BTEX (EPA Method 8021B), total Petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 2 (Attachment 2) and the laboratory data report can be found in Attachment 7. All confirmatory samples collected and analyzed were below closure criteria for the site.

**Frontier Field Services, LLC**

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

**2022 Spill Assessment and Closure**

November 2022

**Closure Request**

The spill area was fully delineated, remediated and backfilled with local soils. Confirmatory Sample Notification email is presented in Attachment 6. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "under 50 feet to groundwater". Based on these findings, Frontier Field Services, LLC respectfully requests that this spill be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



Monica Peppin, A.S.  
PROJECT MANAGER, REPORTING

November 7, 2022

Date

**Attachments**

- Attachment 1. Figures
- Attachment 2. Tables
- Attachment 3. NMOCD C-141 Report
- Attachment 4. Daily Field Reports with Pictures
- Attachment 5. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 6. Confirmatory Sample Notifications
- Attachment 7. Laboratory Data Reports and COCs

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3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001



**Frontier Field Services, LLC**

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

**2022 Spill Assessment and Closure**November 2022

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**References**

Google Inc. (2022). *Google Earth Pro* (Version 7.3.4) [Software]. Retrieved from <http://www.google.com/earth> on August 20, 2022.

New Mexico Bureau of Geology and Mineral Resources. (2022). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>.

New Mexico Mining and Minerals Division. (2022). *Coal Mine Resources in New Mexico*. Retrieved from <http://www.emnrd.state.nm.us/MMD/gismapminedata.html>

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2022). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

United States Department of Homeland Security, FEMA Flood Map Service Center. (2020). *Flood Map Number 35015C1875D*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>

United States Fish and Wildlife Service. (2022). *National Wetlands Inventory Surface Waters and Wetland*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

**Frontier Field Services, LLC**

Abo Plant to Coyote 12" Steel Line Receiver, nAPP2222822822 and nAPP2223049065

**2022 Spill Assessment and Closure**

November 2022

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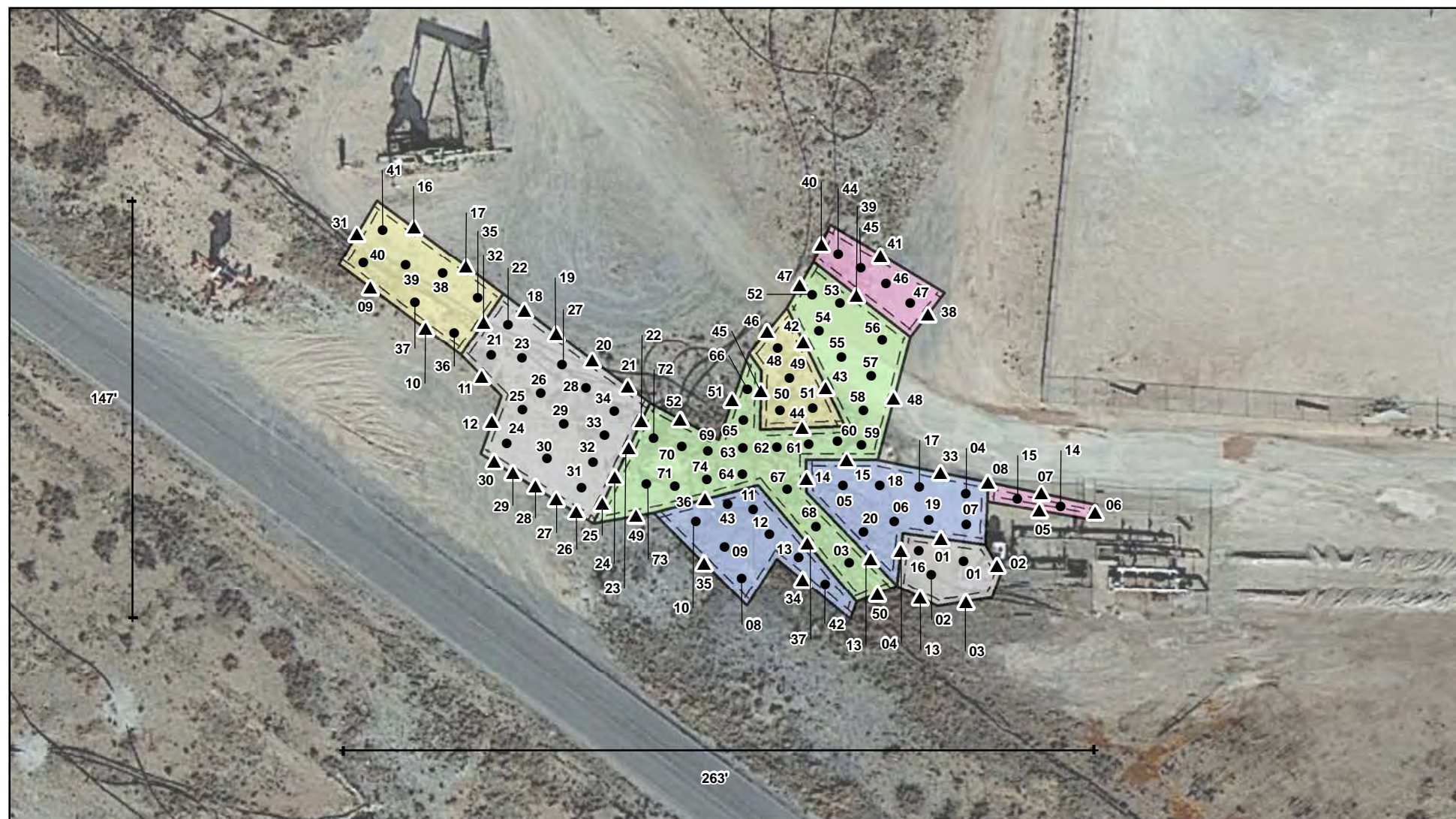
## **Limitations**

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

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



## **ATTACHMENT 1**



- Base Sample (Prefixed by 'BS22-')
- ▲ Wall Sample (Prefixed by 'WS22-')
- 0.5' Excavation (159 sq. ft.)
- 2' Excavation (2,924 sq. ft.)
- 4' Excavation (962 sq. ft.)
- 5' Excavation (2,157 sq. ft.)
- 8' Excavation (3,436 sq. ft.)



0 25 50 Feet  
Map Center:  
Lat/Long: 32.789074, -104.160551

NAD 1983 UTM Zone 13N  
Date: Nov 02/22



### Confirmatory Schematic Abo Plant to Coyote 12" Steel Line Receiver

FIGURE:

2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background imagery from ESRI, 2020. Feature locations from GPS survey, Vertex Professional Services, Ltd., 2022.

VERSATILITY. EXPERTISE.

## **ATTACHMENT 2**



Client Name: Frontier Field Services, LLC

Site Name: Abo Plant to Coyote 12" Steel Line Receiver

NMOCD Tracking #: nAPP2222822822

Project #: 22E-02945

Lab Reports: E209069, E209045, E209046, E209190, E209191, E209192, E210009, E210010, E210020, E210167

Table 2. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS22-01	8	9/6/2022	-	29	346	ND	ND	ND	31.7	ND	31.7	31.7	302
BS22-02	8	9/6/2022	-	13	0	ND	ND	ND	ND	ND	ND	ND	415
BS22-03	0.5	9/6/2022	-	22	147	ND	ND	ND	ND	ND	ND	ND	116
BS22-04	2	9/6/2022	-	37	166	ND	ND	ND	ND	ND	ND	ND	133
BS22-05	2	9/6/2022	-	43	24	ND	ND	ND	ND	ND	ND	ND	54.3
BS22-06	2	9/6/2022	-	39	121	ND	ND	ND	ND	ND	ND	ND	195
BS22-07	2	10/19/2022	-	24	54	ND	ND	ND	ND	ND	ND	ND	ND
BS22-08	2	9/8/2022	0	22	134	ND	ND	ND	ND	ND	ND	ND	20.2
BS22-09	2	9/8/2022	0	14	147	ND	ND	ND	ND	ND	ND	ND	ND
BS22-10	2	9/8/2022	0	17	171	ND	ND	ND	ND	ND	ND	ND	ND
BS22-11	2	9/8/2022	0	31	191	ND	ND	ND	ND	ND	ND	ND	32.1
BS22-12	2	9/8/2022	0	38	193	ND	ND	ND	ND	ND	ND	ND	ND
BS22-13	2	10/19/2022	0	29	736	ND	ND	ND	ND	ND	ND	ND	ND
BS22-14	4	9/28/2022	-	22	310	ND	ND	ND	ND	ND	ND	ND	197
BS22-15	4	9/28/2022	-	15	353	ND	ND	ND	ND	ND	ND	ND	21.6
BS22-16	8	9/29/2022	-	-	519	ND	ND	ND	28	ND	28	28	52.2
BS22-17	2	9/29/2022	-	70	523	ND	ND	ND	ND	ND	ND	ND	171
BS22-18	2	9/29/2022	-	91	178	ND	ND	ND	42.2	51.5	42.2	93.7	55.9
BS22-19	2	9/29/2022	-	95	0	ND	ND	ND	33.3	ND	33.3	33.3	233
BS22-20	2	9/29/2022	-	46	180	ND	ND	ND	ND	ND	ND	ND	157
BS22-21	8	9/29/2022	-	-	453	ND	ND	ND	ND	ND	ND	ND	181
BS22-22	8	9/29/2022	-	-	438	ND	ND	ND	ND	ND	ND	ND	149
BS22-23	8	9/29/2022	-	-	409	ND	ND	ND	ND	ND	ND	ND	145
BS22-24	8	9/29/2022	-	-	438	ND	ND	ND	ND	ND	ND	ND	71.9
BS22-25	8	9/29/2022	-	-	440	ND	ND	ND	ND	ND	ND	ND	116
BS22-26	8	9/29/2022	-	-	469	ND	ND	ND	ND	ND	ND	ND	155
BS22-27	8	9/29/2022	-	-	357	ND	ND	ND	ND	ND	ND	ND	280
BS22-28	8	9/29/2022	-	-	386	ND	ND	ND	ND	ND	ND	ND	221
BS22-29	8	9/29/2022	-	-	385	ND	ND	ND	ND	ND	ND	ND	182
BS22-30	8	9/29/2022	-	-	414	ND	ND	ND	ND	ND	ND	ND	42.9
BS22-31	8	9/29/2022	-	-	418	ND	ND	ND	ND	ND	ND	ND	43.7
BS22-32	8	9/29/2022	-	-	334	ND	ND	ND	ND	ND	ND	ND	65.5
BS22-33	8	9/29/2022	-	-	363	ND	ND	ND	ND	ND	ND	ND	63.6
BS22-34	8	9/29/2022	-	-	523	ND	ND	ND	ND	ND	ND	ND	148
BS22-35	5	9/30/2022	-	-	393	ND	ND	ND	ND	ND	ND	ND	172
BS22-36	5	9/30/2022	-	-	419	ND	ND	ND	ND	ND	ND	ND	427
BS22-37	5	9/30/2022	-	-	458	ND	ND	ND	ND	ND	ND	ND	286
BS22-38	5	9/30/2022	-	-	448	ND	ND	ND	ND	ND	ND	ND	282
BS22-39	5	9/30/2022	-	-	398	ND	ND	ND	ND	ND	ND	ND	237
BS22-40	5	9/30/2022	-	-	323	ND	ND	ND	ND	ND	ND	ND	172
BS22-41	5	9/30/2022	-	-	222	ND	ND	ND	ND	ND	ND	ND	233
BS22-42	2	9/30/2022	-	-	102	ND	ND	ND	48.3	67	48.3	115.3	39.1
	2.5	10/19/2022	-	9	350	ND	ND	ND	ND	ND	ND	ND	148
BS22-43	2	9/30/2022	-	-	181	ND	ND	ND	77.4	110	77.4	187.4	74.7
	2.5	10/19/2022	-	8	196	ND	ND	ND	ND	ND	ND	ND	36.7
BS22-44	4	9/30/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	36.9
BS22-45	4	9/30/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-46	4	9/30/2022	-	-	8	ND	ND	ND	ND	ND	ND	ND	ND
BS22-47	4	9/30/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	31.4
BS22-48	5	9/30/2022	-	-	163	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Frontier Field Services, LLC

Site Name: Abo Plant to Coyote 12" Steel Line Receiver

NMOCD Tracking #: 2222822822

Project #: 22E-02945

Lab Reports: E209069, E209045, E209046, E209190, E209191, E209192, E210009, E210010, E210020, E210167

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater &lt;50 feet bgs

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS22-49	5	9/30/2022	-	-	216	ND	ND	ND	ND	ND	ND	ND	ND
BS22-50	5	9/30/2022	-	-	106	ND	ND	ND	ND	ND	ND	ND	64
BS22-51	5	9/30/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	60.5
BS22-52	0.5	9/30/2022	-	-	479	ND	ND	ND	ND	ND	ND	ND	371
BS22-53	0.5	9/30/2022	-	-	331	ND	ND	ND	ND	ND	ND	ND	141
BS22-54	0.5	9/30/2022	-	-	412	ND	ND	ND	ND	ND	ND	ND	462
BS22-55	0.5	9/30/2022	-	-	321	ND	ND	ND	ND	ND	ND	ND	397
BS22-56	0.5	9/30/2022	-	-	445	ND	ND	ND	ND	ND	ND	ND	62.3
BS22-57	0.5	9/30/2022	-	-	310	ND	ND	ND	ND	ND	ND	ND	509
BS22-58	0.5	9/30/2022	-	-	522	ND	ND	ND	ND	ND	ND	ND	285
BS22-59	0.5	9/30/2022	-	-	484	ND	ND	ND	ND	ND	ND	ND	306
BS22-60	0.5	10/19/2022	-	10	180	ND	ND	ND	ND	ND	ND	ND	52.8
BS22-61	0.5	10/19/2022	-	6	281	ND	ND	ND	ND	ND	ND	ND	37.3
BS22-62	0.5	10/19/2022	-	19	37	ND	ND	ND	ND	ND	ND	ND	83.2
BS22-63	0.5	10/19/2022	-	8	128	ND	ND	ND	ND	ND	ND	ND	40.9
BS22-64	0.5	10/19/2022	-	9	307	ND	ND	ND	ND	ND	ND	ND	ND
BS22-65	0.5	10/19/2022	-	32	160	ND	ND	ND	ND	ND	ND	ND	78.1
BS22-66	0.5	10/19/2022	-	31	171	ND	ND	ND	ND	ND	ND	ND	103
BS22-67	0.5	10/19/2022	-	27	128	ND	ND	ND	ND	ND	ND	ND	76.5
BS22-68	0.5	10/19/2022	-	51	161	ND	ND	ND	ND	ND	ND	ND	40.9
BS22-69	0.5	10/19/2022	-	0	124	ND	ND	ND	ND	ND	ND	ND	63.6
BS22-70	0.5	10/19/2022	-	48	8	ND	ND	ND	29.8	ND	29.8	29.8	29.8
BS22-71	0.5	10/19/2022	-	32	230	ND	ND	ND	ND	ND	ND	ND	105
BS22-72	0.5	10/19/2022	-	53	96	ND	ND	ND	ND	ND	ND	ND	46.5
BS22-73	0.5	10/19/2022	-	35	134	ND	ND	ND	ND	ND	ND	ND	25.8
BS22-74	0.5	10/19/2022	-	21	199	ND	ND	ND	ND	ND	ND	ND	58.1
WS22-01	0-4	9/13/2022	-	-	121	ND	0.0367	ND	ND	ND	ND	ND	127
WS22-01	4-8	9/6/2022	-	-	46	ND	ND	ND	ND	ND	ND	ND	85.4
WS22-02	0-4	9/6/2022	-	-	451	ND	ND	ND	ND	ND	ND	ND	347
WS22-02	4-8	9/6/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS22-03	0-4	9/6/2022	-	-	310	ND	ND	ND	ND	ND	ND	ND	155
WS22-03	4-8	9/6/2022	-	-	580	ND	ND	ND	ND	ND	ND	ND	2100
WS22-03	4-8	10/16/2022	-	4	124	ND	ND	ND	ND	ND	ND	ND	57.4
WS22-04	0-4	9/6/2022	-	13	0	ND	ND	ND	ND	ND	ND	ND	126
WS22-04	4-8	9/6/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS22-05	0-4	9/28/2022	-	19	421	ND	ND	ND	ND	ND	ND	ND	ND
WS22-06	0-4	9/28/2022	-	9	291	ND	ND	ND	ND	ND	ND	ND	ND
WS22-07	0-4	9/28/2022	-	4	289	ND	ND	ND	ND	ND	ND	ND	85.2
WS22-08	2-4	9/28/2022	-	16	356	ND	ND	ND	ND	ND	ND	ND	ND
WS22-09	0-5	9/28/2022	-	15	482	ND	ND	ND	ND	ND	ND	ND	290
WS22-10	0-5	9/28/2022	-	30	206	ND	ND	ND	ND	ND	ND	ND	326
WS22-11	0-8	9/28/2022	-	34	453	ND	ND	ND	ND	ND	ND	ND	528
WS22-12	0-8	9/28/2022	-	-	93	ND	ND	ND	ND	ND	ND	ND	137
WS22-13	0-4	10/19/2022	-	9	251	ND	ND	ND	ND	ND	ND	ND	ND
WS22-13	4-8	9/29/2022	-	-	50	ND	ND	ND	35.1	ND	35.1	35.1	45.6
WS22-14	0-2	9/29/2022	-	91	0	ND	ND	ND	27.3	ND	27.3	27.3	53
WS22-15	0-2	9/29/2022	-	42	243	ND	ND	ND	ND	ND	ND	ND	133
WS22-16	0-5	9/29/2022	-	43	248	ND	ND	ND	ND	ND	ND	ND	242
WS22-17	0-5	9/29/2022	-	-	314	ND	ND	ND	ND	ND	ND	ND	129

Client Name: Frontier Field Services, LLC

Site Name: Abo Plant to Coyote 12" Steel Line Receiver

NMOCD Tracking #: 2222822822

Project #: 22E-02945

Lab Reports: E209069, E209045, E209046, E209190, E209191, E209192, E210009, E210010, E210020, E210167

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS22-18	0-8	9/29/2022	-	-	386	ND	ND	ND	ND	ND	ND	ND	127
WS22-19	0-8	9/29/2022	-	-	220	ND	ND	ND	ND	ND	ND	ND	120
WS22-20	0-8	9/29/2022	-	-	164	ND	ND	ND	ND	ND	ND	ND	109
WS22-21	0-8	9/29/2022	-	-	347	ND	ND	ND	ND	ND	ND	ND	241
WS22-22	0-8	9/29/2022	-	-	226	ND	ND	ND	ND	ND	ND	ND	186
WS22-23	0-8	9/29/2022	-	-	255	ND	ND	ND	ND	ND	ND	ND	190
WS22-24	0-8	9/29/2022	-	-	265	ND	ND	ND	ND	ND	ND	ND	114
WS22-25	0-8	9/29/2022	-	-	207	ND	ND	ND	ND	ND	ND	ND	205
WS22-26	0-8	9/29/2022	-	-	535	ND	ND	ND	ND	ND	ND	ND	513
WS22-27	0-8	9/29/2022	-	-	473	ND	ND	ND	ND	ND	ND	ND	412
WS22-28	0-8	9/29/2022	-	-	460	ND	ND	ND	ND	ND	ND	ND	382
WS22-29	0-8	9/29/2022	-	-	484	ND	ND	ND	ND	ND	ND	ND	278
WS22-30	0-8	9/29/2022	-	-	477	ND	ND	ND	ND	ND	ND	ND	137
WS22-31	0-5	9/29/2022	-	-	222	ND	ND	ND	ND	ND	ND	ND	254
WS22-32	5-8	9/30/2022	-	-	432	ND	ND	ND	ND	ND	ND	ND	153
WS22-33	0-2	9/30/2022	-	-	183	ND	ND	ND	36.2	ND	36.2	36.2	ND
WS22-34	0-2	9/30/2022	-	47	376	ND	ND	ND	28.1	ND	28.1	28.1	20
WS22-35	0-2	9/30/2022	-	32	492	ND	ND	ND	ND	ND	ND	ND	22.5
WS22-36	0-2	9/30/2022	-	58	522	ND	ND	ND	73.1	135	73.1	208.1	ND
		10/19/2022	-	90	145	ND	ND	ND	ND	ND	ND	ND	ND
WS22-37	0-2	9/30/2022	-	-	529	ND	ND	ND	43.6	51.7	43.6	95.3	68.6
WS22-38	0-4	9/30/2022	-	-	62	ND	ND	ND	ND	ND	ND	ND	74.4
WS22-39	0.5-4	9/30/2022	-	-	370	ND	ND	ND	ND	ND	ND	ND	178
WS22-40	0-4	9/30/2022	-	-	340	ND	ND	ND	40.1	ND	40.1	40.1	131
WS22-41	0-4	9/30/2022	-	-	99	ND	ND	ND	ND	ND	ND	ND	85
WS22-42	0.5-5	9/30/2022	-	-	421	ND	ND	ND	ND	ND	ND	ND	306
WS22-43	0.5-5	9/30/2022	-	-	340	ND	ND	ND	ND	ND	ND	ND	303
WS22-44	0.5-5	9/30/2022	-	-	343	ND	ND	ND	ND	ND	ND	ND	76.4
WS22-45	0.5-5	9/30/2022	-	-	382	ND	ND	ND	ND	ND	ND	ND	191
WS22-46	0-5	9/30/2022	-	-	333	ND	ND	ND	ND	ND	ND	ND	161
WS22-47	0-0.5	9/30/2022	-	-	467	ND	ND	ND	ND	ND	ND	ND	307
WS22-48	0-0.5	9/30/2022	-	-	196	ND	ND	ND	ND	ND	ND	ND	ND
WS22-49	0-0.5	10/19/2022	-	56	241	ND	ND	ND	ND	ND	ND	ND	111
WS22-50	0-0.5	10/19/2022	-	44	193	ND	ND	ND	ND	ND	ND	ND	380
WS22-51	0-0.5	10/19/2022	-	26	206	ND	ND	ND	ND	ND	ND	ND	88.7
WS22-52	0-0.5	10/19/2022	-	16	108	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria

Bold and green shaded indicates samples recollected and under NMOCD Closure Criteria

## **ATTACHMENT 3**

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	nAPP2222822822
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 32.788931 Longitude -104.160235  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Abo Plant to Coyote 12" Steel Line Receiver	Site Type Pipeline
Date Release Discovered 8/8/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	34	17S	28E	Eddy

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

### 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) 3	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 9,396.73	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Unknown ignition source ignited a fire at receiver facility.



Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	nAPP2222822822
District RP	
Facility ID	
Application ID	

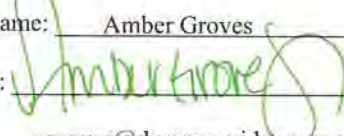
## Closure

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: 11/3/2022  
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: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Received by OCD: 8/18/2022 3:28:48 PM

Page 1 of 5

District I  
1625 N. French Dr., Hobbs, NM 88240  
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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	NAPP2223049065
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Apache Corporation	OGRID 873
Contact Name Larry Baker	Contact Telephone 432-215-2284
Contact email larry.baker@apachecorp.com	Incident # (assigned by OCD)
Contact mailing address 303 Veterans Airpark Lane Midland, TX 79705	

### Location of Release Source

Latitude 32.788981 Longitude -104.160229  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name D State 85-88	Site Type Flow lines
Date Release Discovered 8/8/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	34	17S	28E	Eddy

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

### Nature and Volume of Release

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

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

Cause of Release 4 surface lines associated with the D State 85,86,87,88 and three emulsion line were damaged due to a fire caused by third party operator.

Released to Imaging: 8/19/2022 9:26:12 AM

Released to Imaging: 1/25/2023 9:41:05 AM

Incident ID	nAPP2223049065
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: Larry Baker Title: Environmental Tech Sr. Staff

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: larry.baker@apachecorp.com Telephone: 432-215-2284

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **ATTACHMENT 4**



## Daily Site Visit Report

Client:	Durango Midstream LLC	Inspection Date:	8/18/2022
Site Location Name:	Coyote 12" Steel Line	Report Run Date:	8/23/2022 10:20 PM
Client Contact Name:	Amber Groves	API #:	
Client Contact Phone #:	346-351-2786		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site 8/18/2022 9:00 AM

Departed Site 8/18/2022 3:10 PM

### Field Notes

- 14:17** Arrived on location
- 14:17** Did walkthrough of site with representatives from standard safety
- 14:17** Began surface scrape of stained areas
- 14:18** Began hand digging stained areas around launcher
- 14:18** Placed spoils on plastic liner

### Next Steps & Recommendations

- 1 Continue scraping surface contamination and field screens



## Daily Site Visit Report



## Site Photos

Viewing Direction: South



Contaminated area under poly lines

Viewing Direction: South



Heavily stained area under poly lines

Viewing Direction: Southwest



Area of staining

Viewing Direction: Southwest



Heavily stained area



## Daily Site Visit Report

Viewing Direction: South



Scraped surface of right of way

Viewing Direction: West



Scraped up portion of stained area near poly lines

Viewing Direction: North



Scraped area west of launcher and poly lines

Viewing Direction: North



Ground staining beneath poly lines

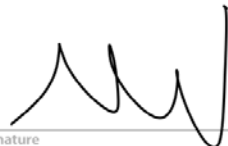
## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** McKitric Wier

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	Durango Midstream LLC	Inspection Date:	
Site Location Name:	Coyote 12" Steel Line	Report Run Date:	10/3/2022 10:52 PM
Client Contact Name:	Amber Groves	API #:	
Client Contact Phone #:	346-351-2786		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site

Departed Site

### Field Notes

- 14:51** Arrived on site and held safety meeting with Lakin and reps from standard
- 14:51** Collected confirmatory samples from excavation west of the road. Samples came back clean
- 14:52** Collected confirmatory samples from excavation east of road. Confirmed clean status of excavation
- 14:53** Completed collecting confirmatory samples from base of excavation west of pump jack
- 14:53** Hauled 120 yards of material to disposal

### Next Steps & Recommendations

- 1 Continue with confirmation sampling



## Daily Site Visit Report



## Site Photos

Viewing Direction: Southeast



Excavation east of pump jack

Viewing Direction: South



Northeast excavation

Viewing Direction: South



Excavation east of road

Viewing Direction: North



Excavation east of road





## Daily Site Visit Report

**Viewing Direction: East**



South end of excavation west of pump jack

**Viewing Direction: Northwest**



Excavation west of pump jack

**Viewing Direction: South**



Southwest excavation

**Viewing Direction: Southwest**



Southwest excavation



## Daily Site Visit Report

<p><b>Viewing Direction: Northwest</b></p>  <p><small>Descriptive Photo - 1 Viewing Direction: Northwest Desc: Southwest excavation Created: 9/30/2022 2:40:11 PM Lat: 32.788956, Long: -104.160491</small></p> <p>Southwest excavation</p>	<p><b>Viewing Direction: Southeast</b></p>  <p><small>Descriptive Photo - 7 Viewing Direction: Southeast Desc: Excavation north of bellhole Created: 9/30/2022 4:01:55 PM Lat: 32.788956, Long: -104.160491</small></p> <p>Excavation north of bellhole</p>
<p><b>Viewing Direction: South</b></p>  <p><small>Descriptive Photo - 8 Viewing Direction: South Desc: Excavation north of bellhole Created: 9/30/2022 4:41:33 PM Lat: 32.788956, Long: -104.160491</small></p> <p>Excavation north of bellhole</p>	<p><b>Viewing Direction: North</b></p>  <p><small>Descriptive Photo - 40 Viewing Direction: North Desc: Northeast excavation Created: 9/30/2022 4:41:33 PM Lat: 32.788956, Long: -104.160491</small></p> <p>Northeast excavation</p>

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** McKitric Wier

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	Durango Midstream LLC	Inspection Date:	10/19/2022
Site Location Name:	Coyote 12" Steel Line	Report Run Date:	10/20/2022 12:34 PM
Client Contact Name:	Amber Groves	API #:	
Client Contact Phone #:	346-351-2786		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site 10/19/2022 8:50 AM

Departed Site 10/19/2022 4:50 PM

### Field Notes

**11:22** Arrived on site and held safety meeting with reps from standard

**18:21** Began collecting samples and excavating southwest excavation down 6 additional inches in required spot @ 0930

**6:31** Collected samples from walls and from bases in required areas

**6:31** Collected samples from 0.5' excavation

**6:31** Loaded 8 trucks

### Next Steps & Recommendations

1



## Daily Site Visit Report



## Site Photos

Viewing Direction: West



Northern portion of southwestern excavation taken down to 2.5'

Viewing Direction: North



Northern portion of excavation taken down to 2.5'

Viewing Direction: Northwest



Northern portion of excavation taken down to 2.5'





Viewing Direction: Southeast



Southern portion of excavation taken down to 2.5'

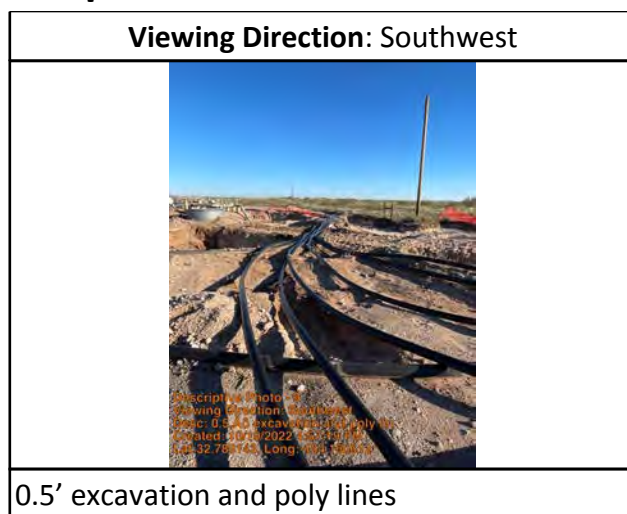


## Daily Site Visit Report

<p><b>Viewing Direction: Northwest</b></p>  <p>Descriptive Photo - 8 Viewing Direction: Northwest Desc: Northern portion of excavation taken down Created: 10/19/2022 3:51:20 PM Lat:32.788930, Long:-104.160426</p> <p>Northern portion of excavation taken down to 2.5'</p>	<p><b>Viewing Direction: Northwest</b></p>  <p>Descriptive Photo - 8 Viewing Direction: Northwest Desc: 0.5 Ao excavation and poly lin Created: 10/19/2022 3:51:20 PM Lat:32.788936, Long:-104.160426</p> <p>0.5' excavation and poly lines</p>
<p><b>Viewing Direction: West</b></p>  <p>Descriptive Photo - 8 Viewing Direction: West Desc: 0.5 Ao excavation Created: 10/19/2022 4:36:37 PM Lat:32.789020, Long:-104.160637</p> <p>0.5' excavation</p>	<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 8 Viewing Direction: East Desc: 0.5 Ao excavation Created: 10/19/2022 4:36:37 PM Lat:32.789020, Long:-104.160637</p> <p>0.5' excavation</p>



## Daily Site Visit Report




## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** McKitric Wier

**Signature:**   
Signature

## **ATTACHMENT 5**

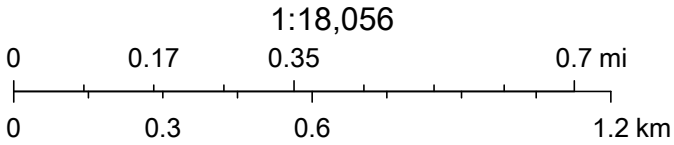


# Abo Plant to Coyote



10/21/2022, 12:03:03 PM

- Override 1
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
- Both Estates
- SiteBoundaries



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

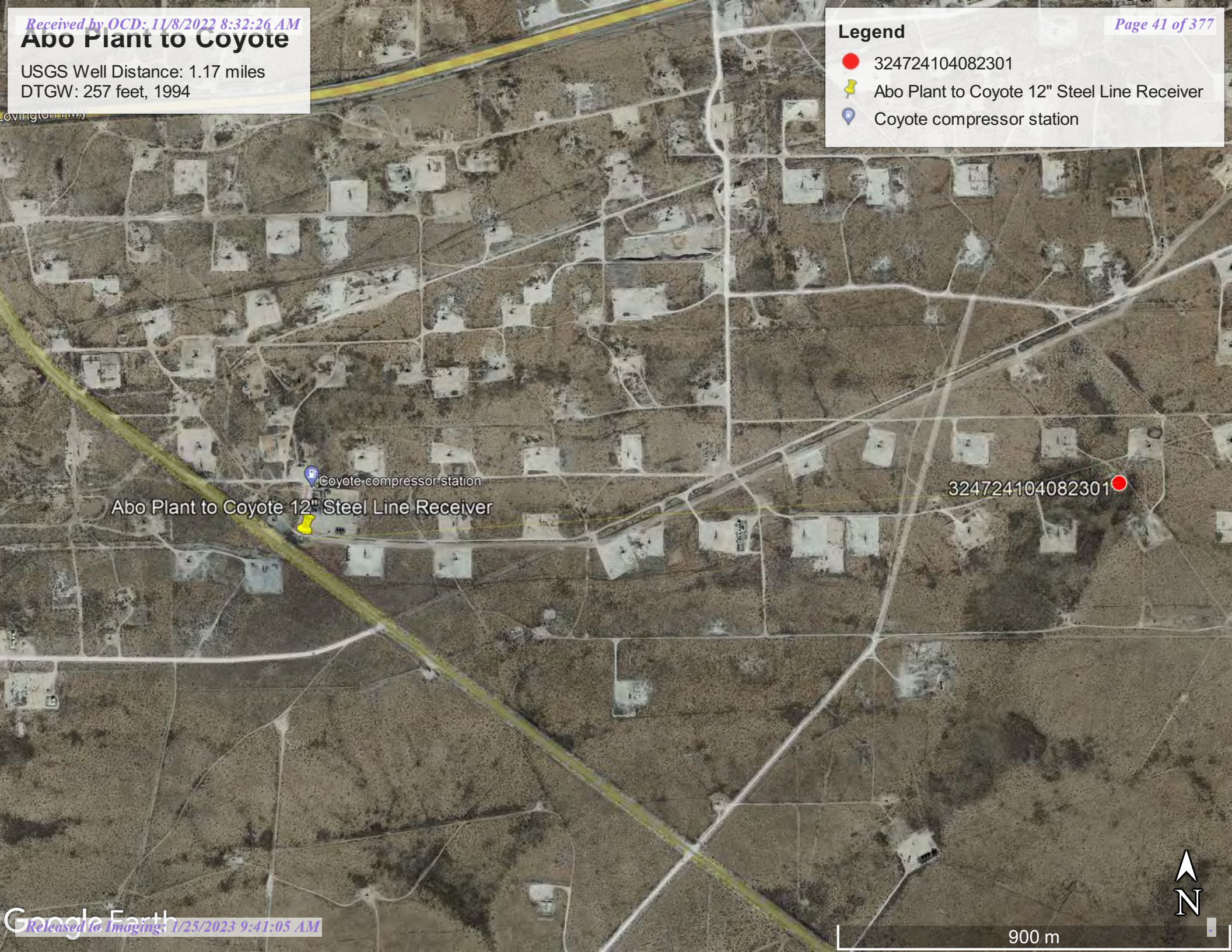


# Abo Plant to Coyote

USGS Well Distance: 1.17 miles  
DTGW: 257 feet, 1994

## Legend

- 324724104082301
- 📌 Abo Plant to Coyote 12" Steel Line Receiver
- 📍 Coyote compressor station



900 m





USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Site Information ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. [Read more.](#)
- [Full News](#) 

## USGS 324724104082301 17S.28E.35.42233

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

### Well Site

#### DESCRIPTION:

Latitude 32°47'24", Longitude 104°08'23" NAD27

Eddy County, New Mexico, Hydrologic Unit 13060011

Well depth: 280.00 feet

Land surface altitude: 3,659 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1986-05-21	1994-03-01	4
<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](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

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**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=324724104082301)**

**[agency\\_code=USGS&site\\_no=324724104082301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324724104082301)**



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

Page Last Modified: 2022-09-01 18:49:10 EDT

0.27 0.26 caww01



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list =

- 324724104082301

Minimum number of levels = 1

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

### USGS 324724104082301 17S.28E.35.42233

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'24", Longitude 104°08'23" NAD27

Land-surface elevation 3,659 feet above NGVD29

The depth of the well is 280.00 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

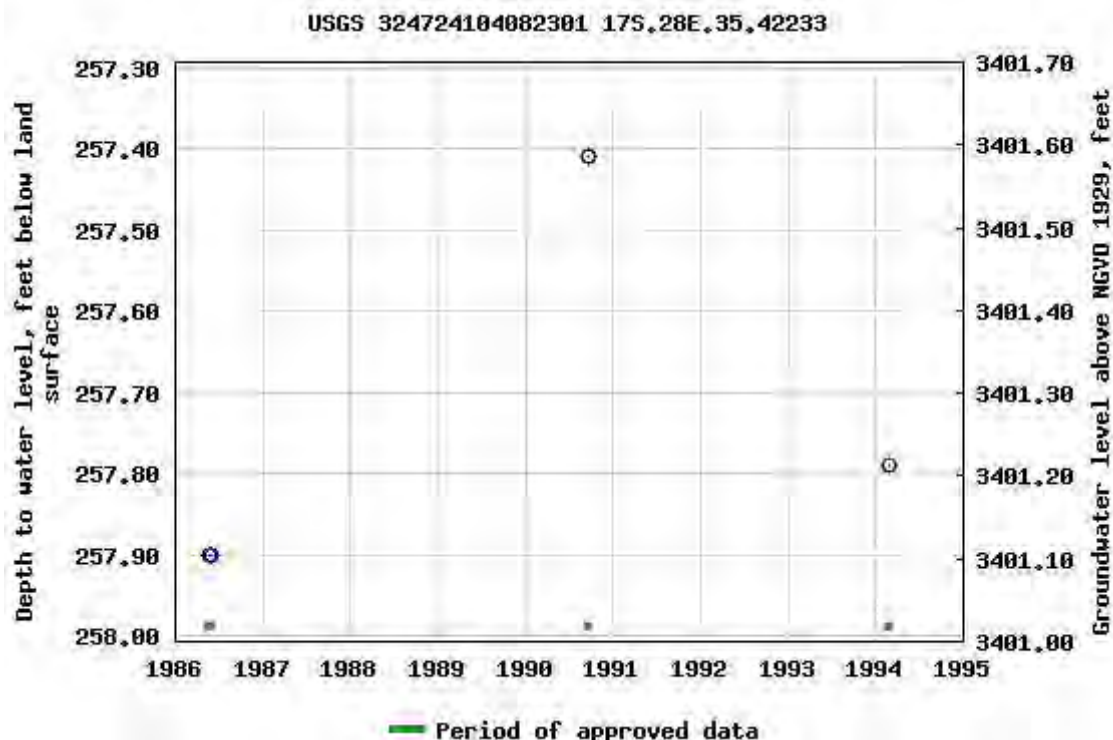
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)





Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

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

**Title: Groundwater for USA: Water Levels**

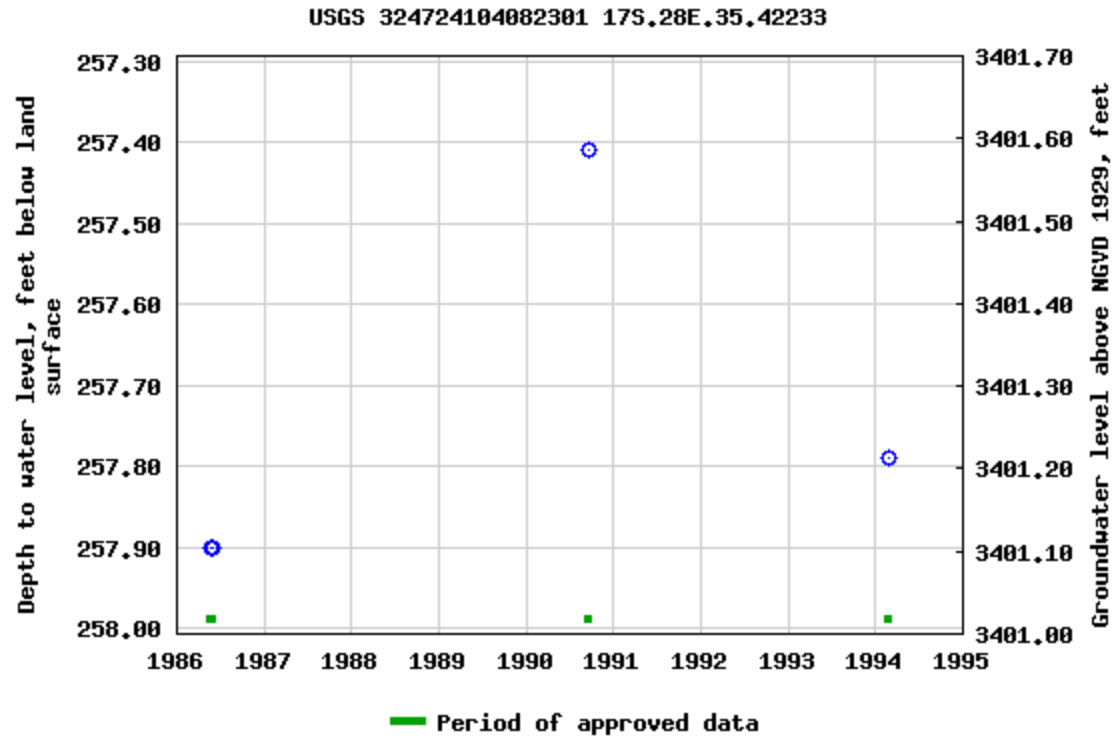
**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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

Page Last Modified: 2022-10-21 17:23:09 EDT

0.57 0.49 nadww01





# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 11857	POD1	1	1	2	05	18S	26E	577784	3625988

**Driller License:** 1064 **Driller Company:** DELFORD W. MARTIN

**Driller Name:** MARTIN, DELFORD

**Drill Start Date:** 09/25/2012

**Drill Finish Date:** 10/01/2012

**Plug Date:**

**Log File Date:** 10/15/2012

**PCW Rcv Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:** 95 GPM

**Casing Size:** 5.00

**Depth Well:** 235 feet

**Depth Water:** 95 feet

### Water Bearing Stratifications:

### Top Bottom Description

95	130	Sandstone/Gravel/Conglomerate
160	235	Sandstone/Gravel/Conglomerate

### Casing Perforations:

### Top Bottom

140	235
-----	-----

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.

8/20/22 12:14 PM

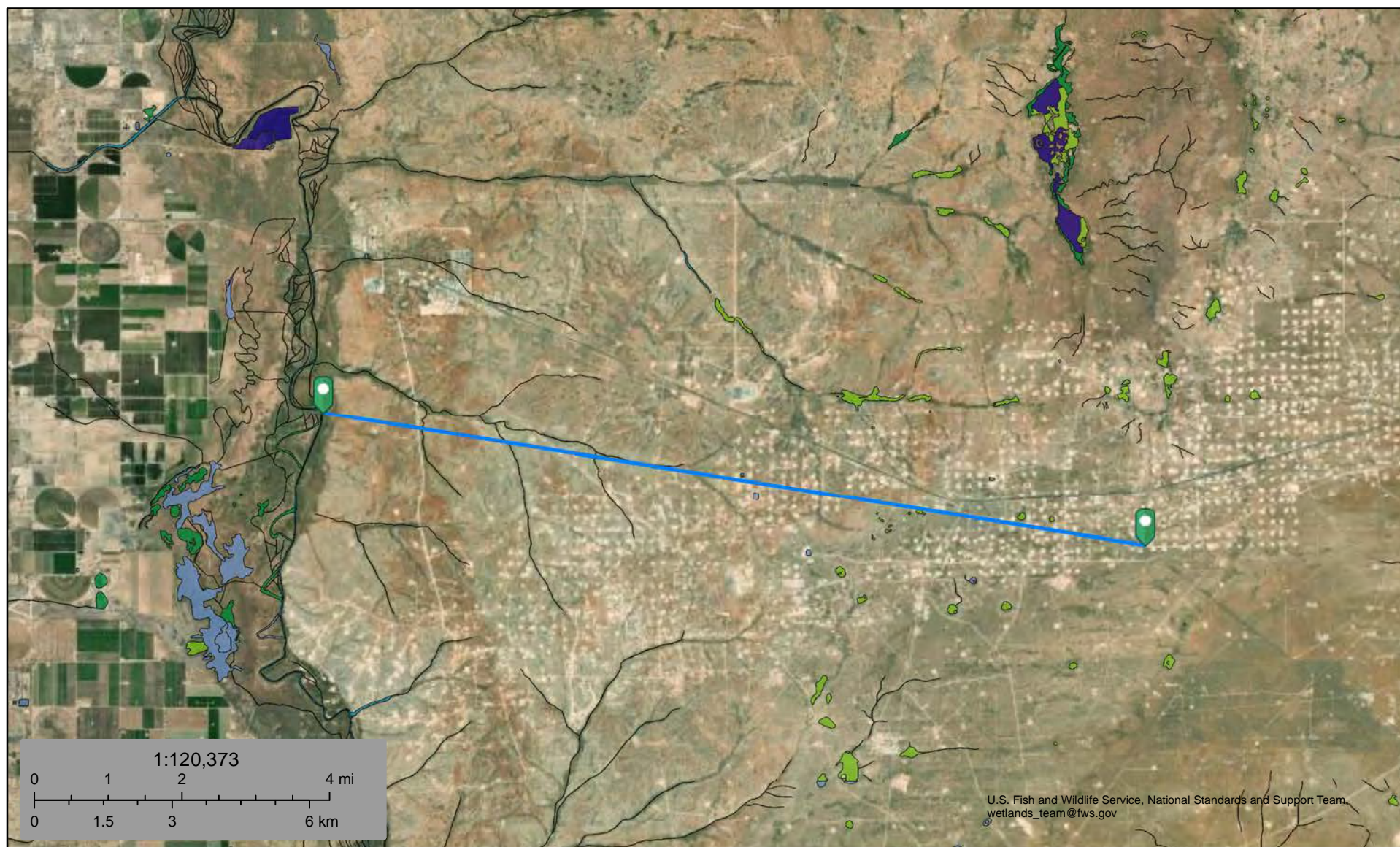
Page 1 of 1

POD SUMMARY - RA 11857 POD1





## Coyote Watercourse 50,146ft



August 20, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

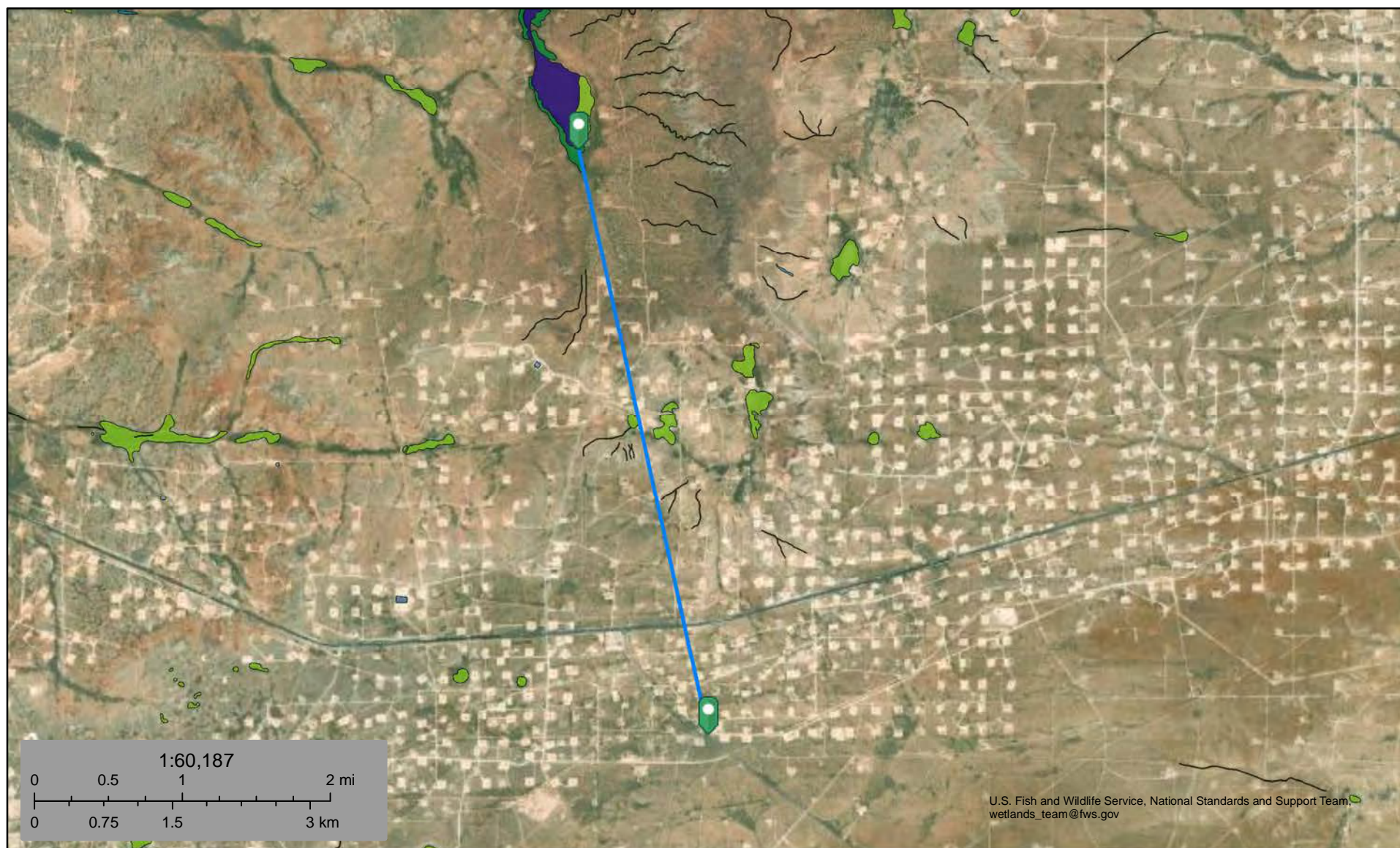
- Lake
- Other
- Riverine

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





## Coyote Lake 17,923ft



August 20, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

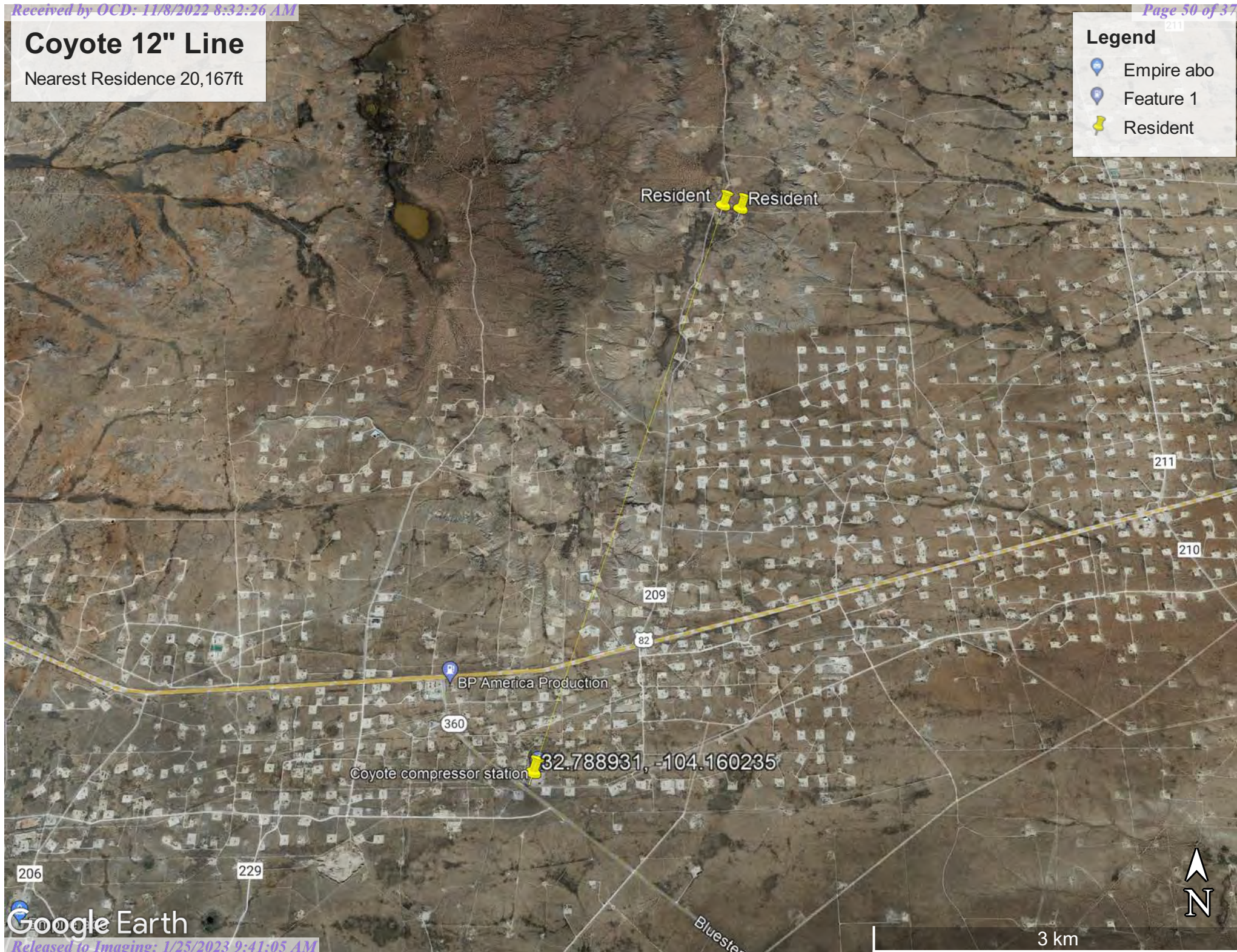


# Coyote 12" Line

Nearest Residence 20,167ft

## Legend

- Empire abo
- Feature 1
- Resident







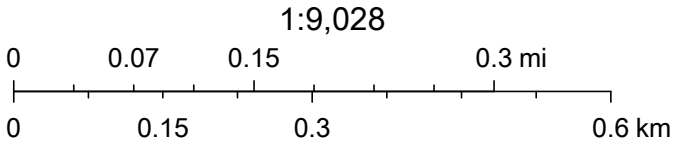


# Abo Plant to Coyote



10/21/2022, 2:46:02 PM

-  Override 1
-  OSE District Boundary
- New Mexico State Trust Lands
  -  Subsurface Estate
  -  SiteBoundaries





Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

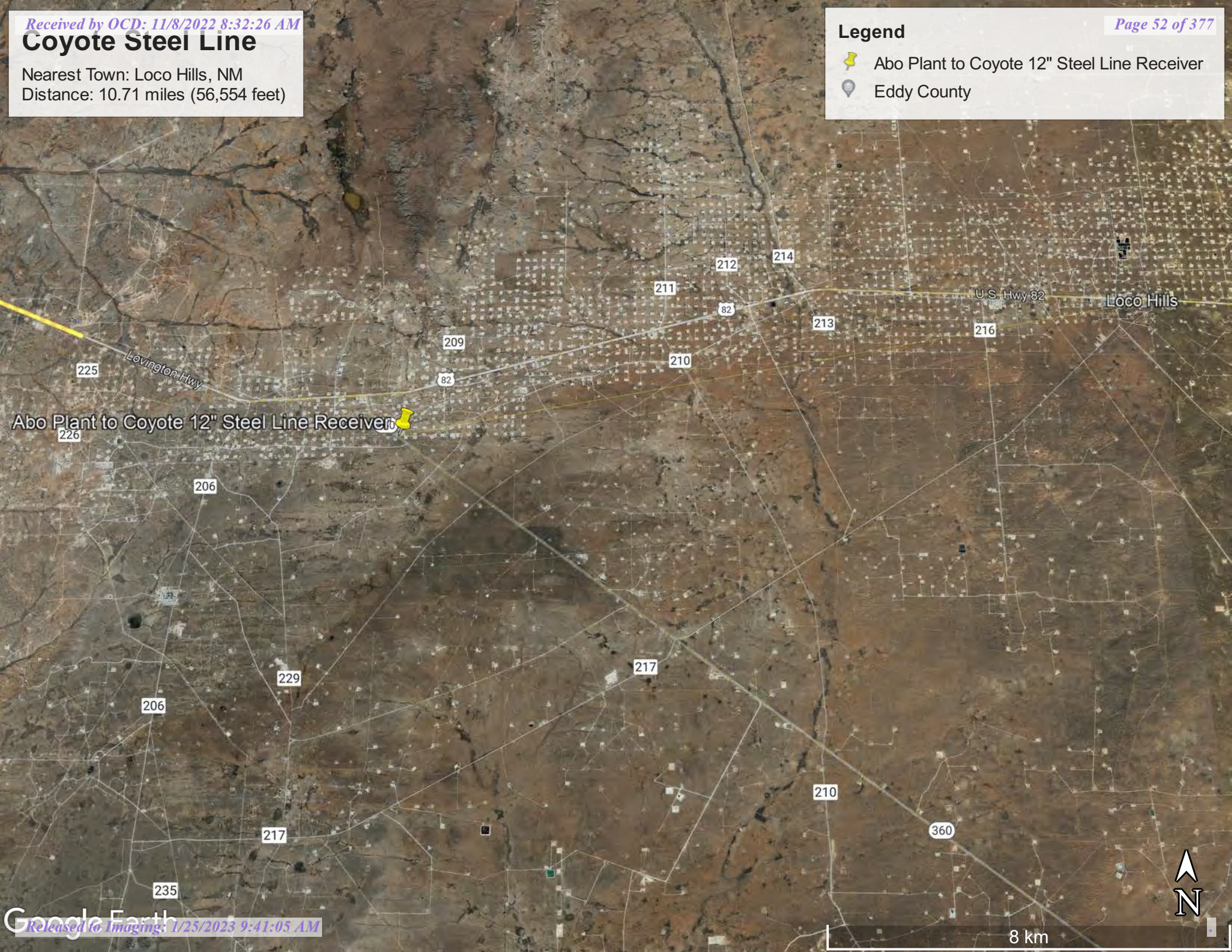


# Coyote Steel Line

Nearest Town: Loco Hills, NM  
Distance: 10.71 miles (56,554 feet)

## Legend

-  Abo Plant to Coyote 12" Steel Line Receiver
-  Eddy County



Abo Plant to Coyote 12" Steel Line Receiver





## Coyote Wetland 5,696ft



August 20, 2022

**Wetlands**

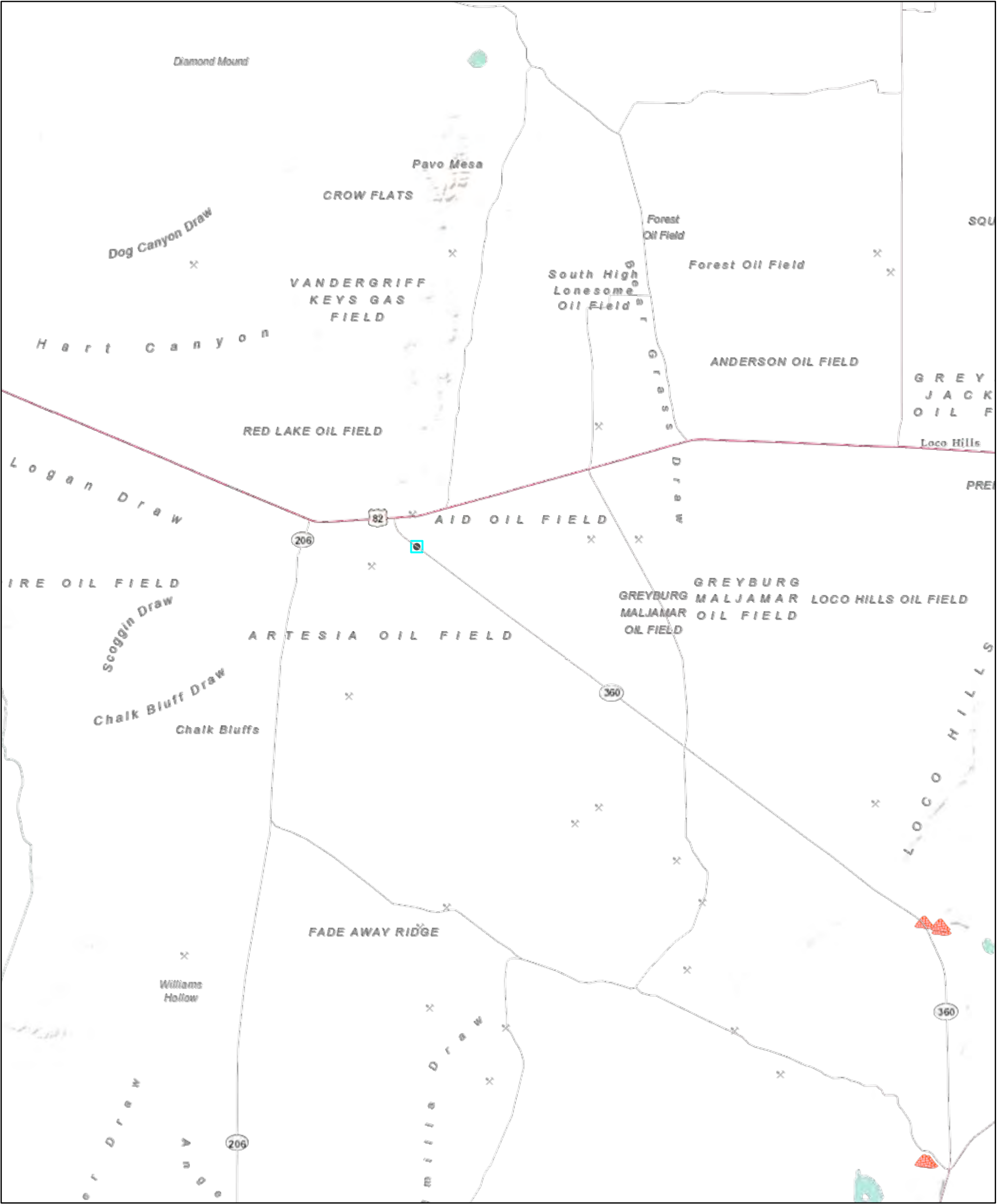
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

# Active Mines in New Mexico

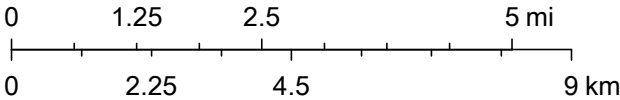


8/20/2022, 1:06:15 PM

Registered Mines

- x Aggregate, Stone etc.
- x Aggregate, Stone etc.
- x Aggregate, Stone etc.
- ▲ Potash

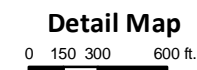
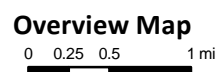
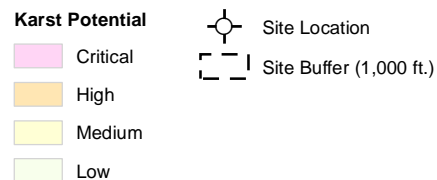
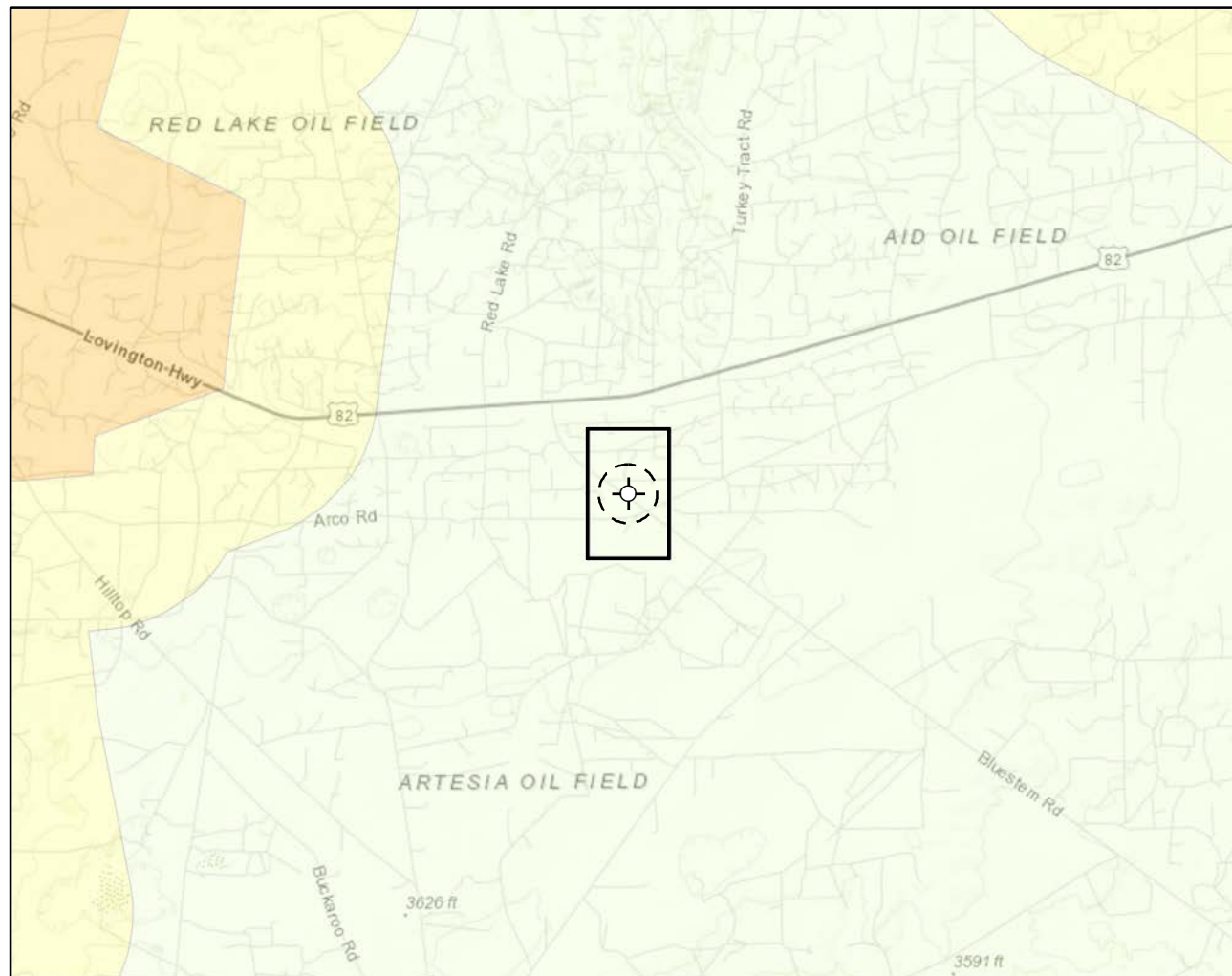
1:144,448



Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS



Document Path: G:\Projects\US PROJECTS\Durango Midstream LLC\22E-02945 - Coyote 12 inch Line Release\Figure X Karst Potential Map (Coyote 12 inch Line Release).mxd



Map Center:  
Lat/Long: 32.788932, -104.160170

NAD 1983 UTM Zone 13N  
Date: Aug 26/22



# **Karst Potential Map** **Coyote 12 inch Line Release**

FIGURE:

**X**



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

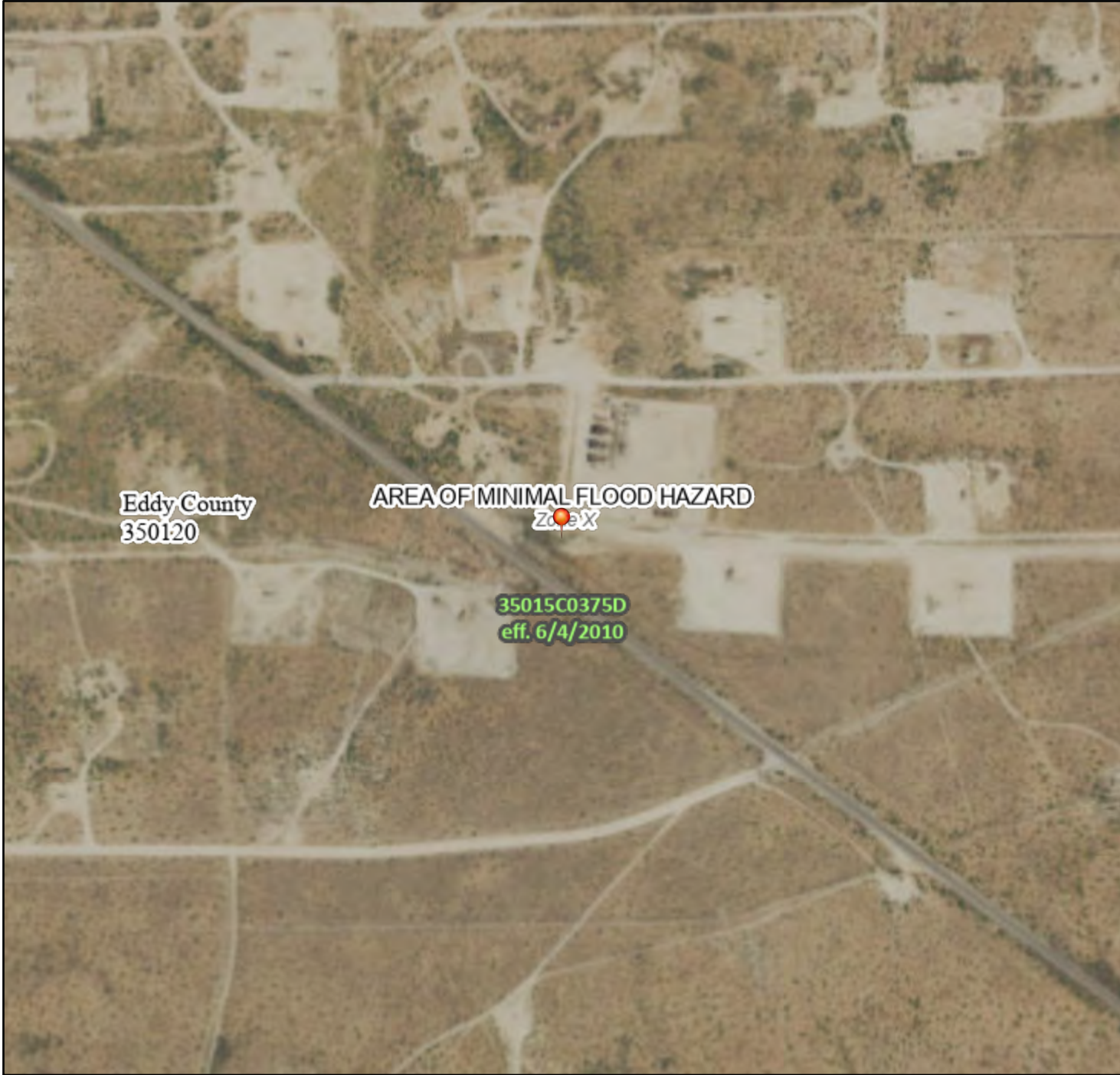
Note: Inset Map, ESRI 2020; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

**VERSATILITY. EXPERTISE.**

# National Flood Hazard Layer FIRMette



104°9'56"W 32°47'35"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/20/2022 at 3:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

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

# Custom Soil Resource Report for Eddy Area, New Mexico



August 20, 2022

# Preface

---

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

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

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

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

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## How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

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

## Custom Soil Resource Report

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



## Soil Map

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

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Soil Map

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## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals

## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

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

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## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KT	Kimbrough-Stegall loams, 0 to 3 percent slopes	0.2	100.0%
<b>Totals for Area of Interest</b>		<b>0.2</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

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



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

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

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

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

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

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

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

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

## Custom Soil Resource Report

**Eddy Area, New Mexico****KT—Kimbrough-Stegall loams, 0 to 3 percent slopes****Map Unit Setting**

*National map unit symbol:* 1w4t  
*Elevation:* 2,750 to 5,000 feet  
*Mean annual precipitation:* 8 to 16 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 230 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Kimbrough and similar soils:* 70 percent  
*Stegall and similar soils:* 25 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kimbrough****Setting**

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Talf, rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 3 inches:* loam  
*H2 - 3 to 9 inches:* loam  
*H3 - 9 to 60 inches:* indurated

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 8 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Stegall****Setting**

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 5 inches:* loam  
*H2 - 5 to 28 inches:* clay loam  
*H3 - 28 to 32 inches:* indurated  
*H4 - 32 to 60 inches:* variable

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high  
(0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 4.8 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

**Minor Components****Simona**

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC002NM - Shallow Sandy  
*Hydric soil rating:* No

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**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE**

**ECOLOGICAL SITE DESCRIPTION**

**ECOLOGICAL SITE CHARACTERISTICS**

Site Type: Range

Site ID: R042XC025NM

Site Name: Shallow

Precipitation or Climate Zone: 10 to 13 inches

Phase: \_\_\_\_\_

**PHYSIOGRAPHIC FEATURES****Narrative:**

This site occurs on upland plains, fans and mesas, or between toe slopes of desert hills and drainage ways. Slopes range fro 0 to 15 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

**Land Form:**

1. plain

2. fan

3. mesa

**Aspect:**

1. Not signifant

2.

3.

	Minimum	Maximum
Elevation (feet)	2,842	4,500
Slope (percent)	0	15
Water Table Depth (inches)	N/A	N/A
Flooding:	Minimum	Maximum
Frequency	N/A	N/A
Duration		
Ponding:	Minimum	Maximum
Depth (inches)	N/A	N/A
Frequency		
Duration		

**Runoff Class:**

Negligible to High



## CLIMATIC FEATURES

### Narrative:

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

	Minimum	Maximum
Frost-free period (days):	180	221
Freeze-free period (days):	199	240
Mean annual precipitation (inches):	10.0	13.0

### Monthly moisture (inches) and temperature (<sup>0</sup>F) distribution:

	Precip. Min.	Precip. Max.	Temp. Min.	Temp. Max.
January	0.40	0.42	20.6	59.7
February	0.40	0.41	25.2	65.6
March	0.41	0.43	31.4	72.7
April	0.58	0.63	40.4	81.5
May	1.28	1.35	49.6	88.7
June	1.40	1.46	59.1	95.4
July	1.62	1.64	63.3	96.4
August	1.79	1.84	61.6	94.8
September	1.81	2.20	54.1	88.5
October	1.16	1.41	40.7	80.4
November	0.43	0.47	28.4	68.7
December	0.48	0.51	20.9	61.1

Climate Stations:

- (1) NM0600, Artesia, NM - Period of record 1961 - 1990
- (2) NM0992, Bitter Lakes WL Refuge, NM - Period of record 1961 - 1990
- (3) NM1469, Carlsbad, NM - Period of record 1961 - 1990
- (4) NM293792, Hagerman, NM - Period of record 1961 - 1990
- (5) NM299563, Waste Isolation Plant, NM - Period of record 1961 - 1990
- (2) NM4346, Jal, NM - Period of record 1961 - 1990

## INFLUENCING WATER FEATURES

### Narrative:

This site is not influenced from water from wetlands or streams.

### Wetland description:

System	Subsystem	Class
N/A		

### If Riverine Wetland System enter Rosgen Stream Type:

N/A

**REPRESENTATIVE SOIL FEATURES****Narrative:**

The soils of this site are shallow to very shallow. Surface layers are stony silty clay, gravelly loam and gravelly fine sandy loam. There is an indurated caliche layer of limestone bedrock that occurs within 20 inches and averages less than 10 inches. Permeability is moderate and moderately rapid and water holding capacity is low. All water is stored above the caliche layer in the shallow soil profile.

Characteristic soils are:

Delnorte very gravelly loam

Lozier gravelly loam 0 to 5 percent slopes

Potter gravelly loam

Tencee gravelly fine sandy loam

Upton gravelly loam

Vieja stony silty clay

Kimbrough gravelly loam

Parent Material Kind: Alluvium

Parent Material Origin: Mixed

**Surface Texture:**

1. gravelly loam

2. gravelly fine sandy loam

3. stony silt clay

**Surface Texture Modifier:**

1. gravel

2.

3.

Subsurface Texture Group: N/A

Surface Fragments  $\leq 3''$  (% Cover): 15 - 40

Surface Fragments  $> 3''$  (% Cover): N/A

Subsurface Fragments  $\leq 3''$  (% Volume): 13 - 42

Subsurface Fragments  $> 3''$  (% Volume): 0 - 1

	Minimum	Maximum
Drainage Class:	Well	Well
Permeability Class:	very slow	moderately slow
Depth (inches):	4	24
Electrical Conductivity (mmhos/cm):	0	2
Sodium Absorption Ratio:	N/A	N/A
Soil Reaction (1:1 Water):	7.4	8.4
Soil Reaction (0.1M CaCl <sub>2</sub> ):	N/A	N/A
Available Water Capacity (inches):	1	1
Calcium Carbonate Equivalent (percent):		



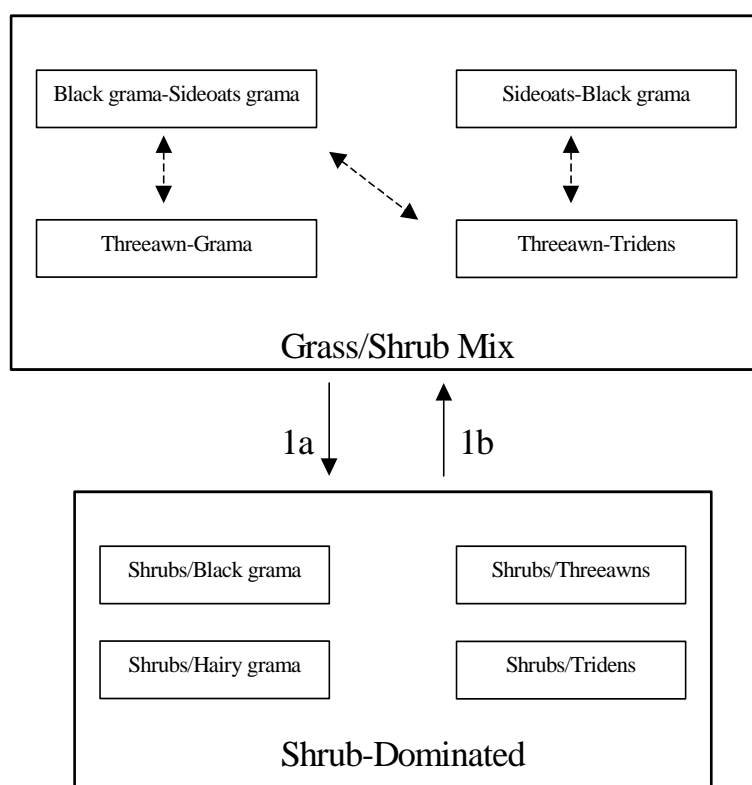
## Ecological Dynamics of the Site:

### Overview

The Shallow site is associated with Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. Suppression of natural fire regimes may also facilitate the transition to shrub dominance.<sup>1</sup>

### Plant Communities and Transitional Pathways (diagram)

#### MLRA-42, SD-3, Shallow



1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

## Plant Communities Photo Display & Descriptive Diagnosis

### MLRA 42; SD-3; Shallow

#### Grass/Shrub mix



- Threeawns-black grama community
- Grass recovery following treatment with tebuthiuron
- Transition back to Grass/Shrub mix

#### Shrub-Dominated



- Creosotebush-catclaw mimosa, with some broom snakeweed and a few scattered mesquite
- Grass cover (hairy tridens-black grama) patchy, large connected bare areas present
- Upton gravelly loam, Eddy Co., NM

Plant Community Name: Historic Climax Plant Community

Plant Community Sequence Number: 1 Narrative Label: HCPC

**Plant Community Narrative:**

**State Containing Historic Climax Plant Community**

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be an important component in the cause of this transition.

Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Ground Cover (Average Percent of Surface Area).

Grasses & Forbs	10 – 15
Bare ground	40 - 60
Surface cobble and stone	15 - 25
Litter (percent)	5 - 8
Litter (average depth in cm.)	2 - 3

Percent canopy cover (trees, shrubs, and half-shrubs)	
Trees	0
Shrubs and half -shrubs	5 - 10

Plant Community Annual Production (by plant type):

Plant Type	Annual Production (lbs/ac)		
	Low	RV	High
Grass/Grasslike	168	352	536
Forb	20	42	64
Tree/Shrub/Vine	63	131	200
Lichen			
Moss			
Microbiotic Crusts			
Totals	250	525	800

**Plant Community Composition and Group Annual Production:** Plant species are grouped by annual production **not** by functional groups.

Plant Type - Grass/Grasslike

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
1	BOER4	black grama	105 – 158	105 - 158
2	BOCU	sideoats grama	79 - 105	79 - 105
3	BOGR2	blue grama	79 - 105	79 - 105
3	BOHI2	hairy grama		
4	MUPO2	bush muhly	26 - 53	26 - 53
5	BOBA3	cane bluestem	16 – 26	16 - 26
6	SPCR	sand dropseed	26 – 53	26 - 53
7	ERPI5	hairy tridens	16 – 26	16 – 26
8	MUAR	ear muhly	5 – 16	5 - 16
9	HENE5	New Mexico feathergrass	5 - 16	5 - 16
10	DAPU7	fluffgrass	5 – 16	5 – 16
11	2GP	other grasses	16 – 26	16 – 26

Plant Type – Tree/Shrub/Vine

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
18	RHMI3	littleleaf sumac	5 – 16	5 – 16
19	LATR2	cresostebush	5 – 16	5 – 16
20	KRER	range ratany	5 – 16	5 – 16
21	MIERX	common javalinabush	5 – 16	5 – 16
22	FLCE	American tarbush	5 – 16	5 – 16
23	KOSP	spiny allthorn	5 – 16	5 – 16
24	PRGL2	mesquite	11 – 26	11 – 26
25	MIACB	catclaw mimosa	5 – 16	5 - 16
26	OPUNT	cactus	5 - 16	5 - 16
27	PAIN2	mariola	11 – 26	11 - 26
28	GUSA2	broom snakeweed	5 – 16	5 – 16
29	2SHRUB	other shrubs	16 – 26	16 - 26



## Plant Type - Forb

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
12	TEACE	stemless actinea	11 – 26	11 – 26
13	PACAL5	wooly groundsel	5 - 16	5 - 16
14	SPHAE	globemallow	5 - 16	5 - 16
15	LESQU	bladderpod	5 - 16	5 - 16
16	CASSI	Senna	5 - 16	5 - 16
17	2FORB	other forbs	11 – 26	11 - 26

## Plant Type - Lichen

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

## Plant Type - Moss

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

## Plant Type - Microbiotic Crusts

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

Other grasses that could appear on this site would include: vine-mesquite, silver bluestem, burrograss, spike dropseed, threeawns, tobosa, muhlys, Arizona cottontop and plains bristlegrass

Other woody plants include: condalia, tesajo cactus, Apacheplume, wolfberry, cactus, ephedra spp., yucca, witerfat and fourwing saltbush.

Other forbs include: desert zinnia, wooly paperflower, prickleaf dogweed, verbena, deerstongue, croton and wright's buckwheat.

## Plant Growth Curves

Growth Curve ID NM2825

Growth Curve Name: HCPC

Growth Curve Description: SD-3 Shallow HCPC Warm Season Plant Community

Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
0	0	3	5	10	10	25	30	12	5	0	0

**Additional States:**

**Shrub-Dominated:** This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to further state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. <sup>2</sup>

**Diagnosis:** Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces.

**Transition to Shrub-Dominated (1a)** Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.<sup>3</sup> Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion.

Key indicators of approach to transition:

- Decrease or change in composition or distribution of grass cover.
- Increase in size and frequency of bare patches.
- Increase in amount of shrub seedlings.

**Transition back to Grassland/Shrub Mix (1b)** Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, prescribed fire might help in maintaining the Grassland/Shrub state.

## ECOLOGICAL SITE INTERPRETATIONS

### Animal Community:

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, Couch's spadefoot toad, marbled whiptail, and greater earless lizard.

Where associated with limestone hills, mule deer utilize this site. Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and Swainson's hawk nest.

### Hydrology Functions:

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

#### Hydrologic Interpretations

Soil Series	Hydrologic Group
Delnorte	C
Lozier	D
Potter	C
Tencee	D
Upton	C
Kimbrough	D
Vieja	D

### Recreational Uses:

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

### Wood Products:

This site has no potential for wood production.

**Other Products:**

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush and mesquite. This site will respond best to a system of management that rotates the season of use.

**Other Information:**

## Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index	Ac/AUM
100 - 76	3.7 – 4.5
75 – 51	4.3 – 5.5
50 – 26	5.3 – 10.0
25 – 0	10.1 +



**Plant Preference by Animal Kind:**

	Code	Species Preference	Code
Stems	S	None Selected	N/S
Leaves	L	Preferred	P
Flowers	F	Desirable	D
Fruit/Seeds	E/S	Undesirable	U
Entire Plant	EP	Not Consumed	NC
Underground Parts	UP	Emergency	E
		Toxic	T

Animal Kind: Livestock

Animal Type: Cattle

Common Name	Scientific Name	Plant Part	Forage Preferences											
			J	F	M	A	M	J	J	A	S	O	N	D
black grama	Bouteloua eriopoda	EP	P	P	P	D	D	D	D	D	D	D	P	P
sideoats grama	Bouteloua curtipendula	EP	P	P	P	P	P	P	P	P	P	P	P	P
blue grama	Bouteloua gracilis	EP	D	D	D	D	P	P	P	P	P	D	D	D
hairy grama	Bouteloua hirsuta	EP	D	D	D	D	P	P	P	P	P	D	D	D
bush muhly	Muhlenbergia porteri	EP	P	P	P	P	P	P	P	P	P	P	P	P
cane bluestem	Bothriochloa barbinodis	EP	U	U	U	U	U	U	P	P	D	U	U	U
sand dropseed	Sporobolus cryptandrus	EP	U	U	U	D	D	D	D	D	D	U	U	U
globemallow	Sphaeralcea	EP	N/S	N/S	N/S	D	D	D	D	D	P	P	P	N/S
bladderpod	Lesquerella	EP	N/S	N/S	D	D	D	D	N/S	N/S	N/S	N/S	N/S	N/S
Senna	Cassia L.	EP	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
cresostebush	Larrea tridentata	L	U	U	U	U	U	U	U	U	U	U	U	U
common javalinabush	Microrhamnus eridoides	EP	U	U	U	U	U	U	U	U	U	U	U	U
American tarbush	Flourensia cernua	EP	U	U	U	U	U	U	U	U	U	U	U	U
mesquite	Prosopis glandulosa	EP	U	U	U	U	U	U	U	U	U	U	U	U
catclaw mimosa	Mimosa aculeaticarpa		U	U	U	U	U	U	U	U	U	U	U	U
cactus	opuntia sp.	EP	E	E	E	E	E	E	E	E	E	E	E	E
mariola	Parthenium incanum	EP	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
broom snakeweed	Gutierrezia sarothrae	L/F	U	U	U	U	U	T	T	U	U	U	U	U

**Supporting Information**Associated Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
------------------	----------------	-----------------------

Similiar Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
------------------	----------------	-----------------------

State Correlation:

This site has been correlated with the following states: Texas

<u>Data Source</u>	<u>Number of Records</u>	<u>Sample Period</u>	<u>State</u>	<u>County</u>
--------------------	------------------------------	----------------------	--------------	---------------

Type Locality:Relationship to Other Established Classifications:Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Characteristic soils are:

Delnorte very gravelly loam	Lozier gravelly loam 0-5% slope	Potter gravelly loam
Tencee gravelly fine sandy loam	Upton gravelly loam	Vieja stony silty clay
Kingrough gravelly loam		

1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.
2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.
3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: <http://www.statlab.iastate.edu/survey/SQI/range.html>

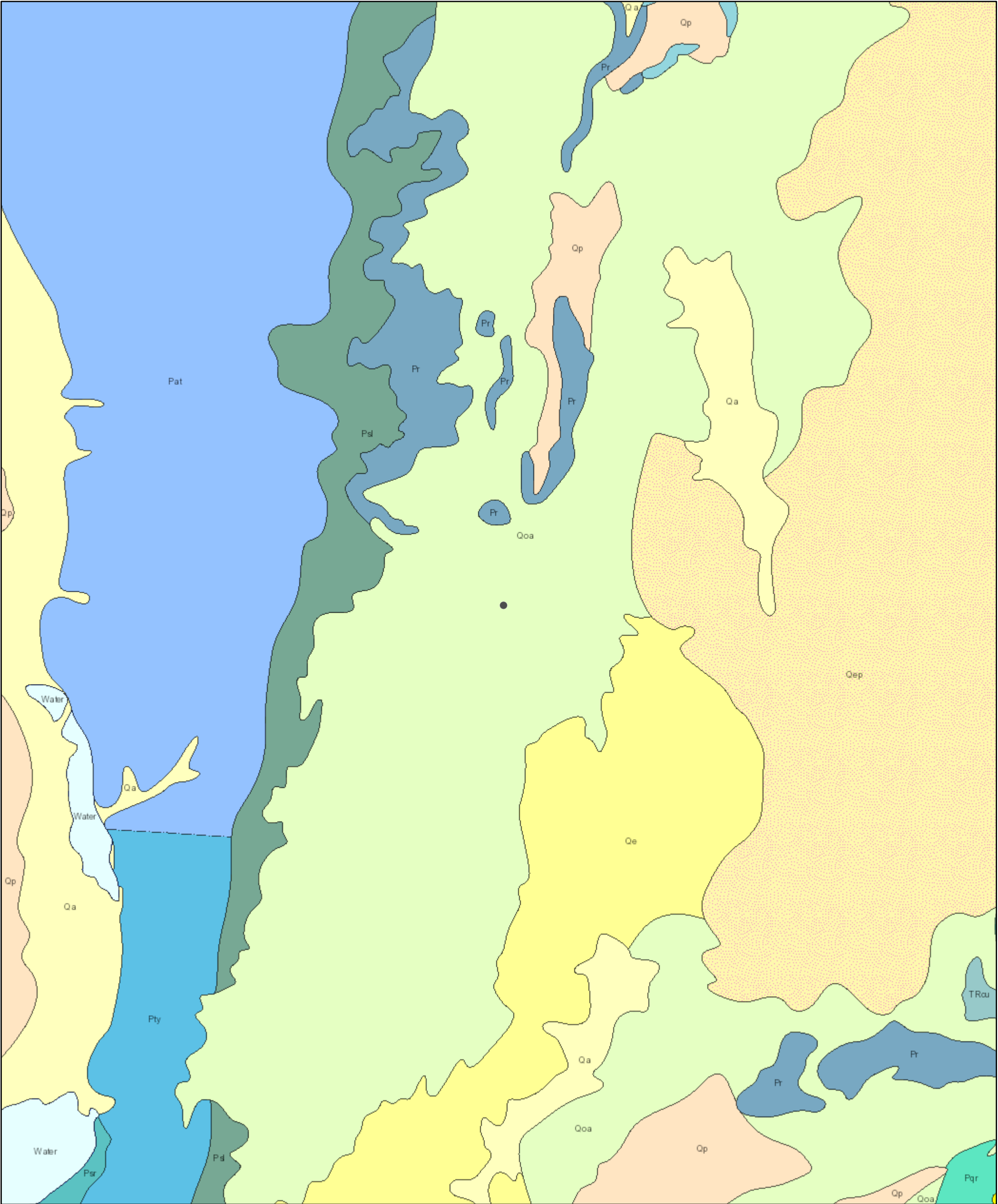
Site Description Approval:

<u>Author</u>	<u>Date</u>	<u>Approval</u>	<u>Date</u>
Don Sylvester	07/12/1979	Don Sylvester	07/12/1979

Site Description Revision:

<u>Author</u>	<u>Date</u>	<u>Approval</u>	<u>Date</u>
David Trujillo	03/26/03	George Chavez	03/26/03

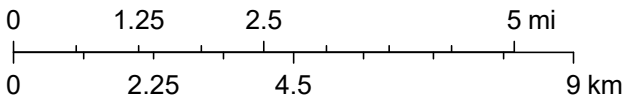




8/20/2022, 2:45:28 PM

- Lithologic Units
- Playa—Alluvium and evaporite deposits (Holocene)
  - Water—Perennial standing water
  - Qa—Alluvium (Holocene to upper Pleistocene)

1:144,448



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census



## **ATTACHMENT 6**

## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** September 2, 2022 4:02 PM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us  
**Cc:** Monica Peppin; agroves@durangomidstream.com  
**Subject:** nAPP2222822822 48 HR Confirmation Sample Notification

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Tuesday, September 6, 2022 through September 9, 2022 at approximately 8:00 a.m., McKittrick Weir will be on site to conduct confirmatory sampling to assess the release listed above. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

[www.vertex.ca](http://www.vertex.ca)

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** September 7, 2022 4:25 PM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us  
**Cc:** agroves@durangomidstream.com; Monica Peppin  
**Subject:** nAPP2222822822 48 HR Confirmatory Sample Notification Coyote Steel Line

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Monday, September 12, 2022 through September 16, 2022 at approximately 8:00 a.m., McKittrick Weir will be on site to conduct confirmatory sampling to assess the release listed above. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** September 19, 2022 4:30 PM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us  
**Cc:** agroves@durangomidstream.com; Monica Peppin  
**Subject:** nAPP2222822822 48 HR Confirmatory Sample Notification Coyote Steel Line

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Thursday, September 22, 2022 through September 23, 2022 at approximately 8:00 a.m., McKitrick Weir will be on site to conduct confirmatory sampling to assess the release listed above. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** September 23, 2022 9:38 AM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us  
**Cc:** Monica Peppin; agroves@durangomidstream.com  
**Subject:** nAPP2222822822 48 HR Confirmatory Notification Coyote Steel Line

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Tuesday, September 27, 2022 through September 30, 2022 at approximately 9:30 a.m., McKitrick Weir will be on site to conduct confirmatory sampling to assess the release listed above. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** September 30, 2022 1:54 PM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us  
**Cc:** Monica Peppin; agroves@durangomidstream.com  
**Subject:** nAPP2222822822 48 HR Confirmatory Notification Coyote Steel Line

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Tuesday, October 4, 2022 through Friday October 7, 2022 at approximately 9:30 a.m., McKitrick Weir will be on site to conduct confirmatory sampling to assess the release listed above. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** October 14, 2022 10:00 AM  
**To:** Enviro, OCD, EMNRD; spills@slo.state.nm.us; Monica Peppin; agroves@durangomidstream.com  
**Subject:** nAPP2222822822 48 HR Confirmatory Notification Coyote Steel Line

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a confirmatory sampling to be conducted for the following release:

nAPP2222822822 DOR: 8/08/2022 Site Name: ABO-Plant to Coyote 12" Steel Line Receiver HP

This work will be completed on behalf of Frontier Field Services, LLC

On Wednesday, October 19, 2022 through October 20, 2022 at approximately 10:00 a.m., Monica Peppin will be on site to conduct additional confirmatory sampling to assess the release listed above. He can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Monica Peppin**  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

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## **ATTACHMENT 7**



Report to:  
Michael Moffit



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Durango Midstream

Project Name: ABO - Coyote 12"

Work Order: E208160

Job Number: 21080-0001

Received: 8/29/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/22

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.  
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: 9/1/22



Michael Moffit  
10077 Grogans Mill Rd Ste 300  
The Woodlands, TX 77380

Project Name: ABO - Coyote 12"  
Workorder: E208160  
Date Received: 8/29/2022 10:32:00AM

Michael Moffit,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2022 10:32:00AM, under the Project Name: ABO - Coyote 12".

The analytical test results summarized in this report with the Project Name: ABO - Coyote 12" 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  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
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Sample Summary

Durango Midstream	Project Name:	ABO - Coyote 12"	Reported: 09/01/22 11:02
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH22-01 0'	E208160-01A	Soil	08/24/22	08/29/22	Glass Jar, 4 oz.
BH22-01 4'	E208160-02A	Soil	08/24/22	08/29/22	Glass Jar, 4 oz.
BH22-01 12'	E208160-03A	Soil	08/24/22	08/29/22	Glass Jar, 4 oz.





## Sample Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/1/2022 11:02:30AM
---	---	----------------------------------

BH22-01 0'

E208160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Benzene	ND	0.0250	1	08/30/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/30/22	08/30/22	
Toluene	ND	0.0250	1	08/30/22	08/30/22	
o-Xylene	ND	0.0250	1	08/30/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/30/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene	104 %	70-130		08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		08/30/22	08/30/22	
Surrogate: Toluene-d8	102 %	70-130		08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene	104 %	70-130		08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		08/30/22	08/30/22	
Surrogate: Toluene-d8	102 %	70-130		08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236022
Diesel Range Organics (C10-C28)	91.6	50.0	2	08/30/22	08/30/22	
Oil Range Organics (C28-C36)	118	100	2	08/30/22	08/30/22	
Surrogate: n-Nonane	96.4 %	50-200		08/30/22	08/30/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236011
Chloride	503	20.0	1	08/29/22	08/30/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/1/2022 11:02:30AM

BH22-01 4'

E208160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Benzene	ND	0.0250	1	08/30/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/30/22	08/30/22	
Toluene	ND	0.0250	1	08/30/22	08/30/22	
o-Xylene	ND	0.0250	1	08/30/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/30/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/30/22	08/30/22	
Surrogate: Toluene-d8		103 %	70-130	08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/30/22	08/30/22	
Surrogate: Toluene-d8		103 %	70-130	08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/30/22	
Surrogate: n-Nonane		91.4 %	50-200	08/30/22	08/30/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236011
Chloride	244	20.0	1	08/29/22	08/30/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/1/2022 11:02:30AM

BH22-01 12'

E208160-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Benzene	ND	0.0250	1	08/30/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/30/22	08/30/22	
Toluene	ND	0.0250	1	08/30/22	08/30/22	
o-Xylene	ND	0.0250	1	08/30/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/30/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/30/22	08/30/22	
Surrogate: Toluene-d8	106 %	70-130		08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/22	08/30/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		08/30/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/30/22	08/30/22	
Surrogate: Toluene-d8	106 %	70-130		08/30/22	08/30/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236022
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/30/22	
Surrogate: n-Nonane	95.9 %	50-200		08/30/22	08/30/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236011
Chloride	275	20.0	1	08/29/22	08/30/22	



## QC Summary Data

Durango Midstream	Project Name:	ABO - Coyote 12"	Reported:
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/1/2022 11:02:30AM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

## Blank (2236019-BLK1)

Prepared: 08/30/22 Analyzed: 08/30/22

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: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS (2236019-BS1)

Prepared: 08/30/22 Analyzed: 08/30/22

Benzene	2.42	0.0250	2.50		96.8	70-130			
Ethylbenzene	2.35	0.0250	2.50		94.2	70-130			
Toluene	2.29	0.0250	2.50		91.4	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.37	0.0500	5.00		87.3	70-130			
Total Xylenes	6.57	0.0250	7.50		87.5	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS Dup (2236019-BSD1)

Prepared: 08/30/22 Analyzed: 08/30/22

Benzene	2.34	0.0250	2.50		93.4	70-130	3.49	23	
Ethylbenzene	2.27	0.0250	2.50		90.8	70-130	3.70	27	
Toluene	2.22	0.0250	2.50		88.7	70-130	3.07	24	
o-Xylene	2.14	0.0250	2.50		85.5	70-130	2.81	27	
p,m-Xylene	4.19	0.0500	5.00		83.9	70-130	4.08	27	
Total Xylenes	6.33	0.0250	7.50		84.4	70-130	3.65	27	
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			





## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported:  9/1/2022 11:02:30AM
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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 (2236019-BLK1)

Prepared: 08/30/22 Analyzed: 08/30/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS (2236019-BS2)

Prepared: 08/30/22 Analyzed: 08/30/22

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS Dup (2236019-BSD2)

Prepared: 08/30/22 Analyzed: 08/30/22

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130	1.17	20	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported:  9/1/2022 11:02:30AM
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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 (2236022-BLK1)

Prepared: 08/30/22 Analyzed: 08/30/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			

## LCS (2236022-BS1)

Prepared: 08/30/22 Analyzed: 08/30/22

Diesel Range Organics (C10-C28)	240	25.0	250		95.8	38-132			
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

## Matrix Spike (2236022-MS1)

Source: E208160-01

Prepared: 08/30/22 Analyzed: 08/30/22

Diesel Range Organics (C10-C28)	285	25.0	250	91.6	77.5	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

## Matrix Spike Dup (2236022-MSD1)

Source: E208160-01

Prepared: 08/30/22 Analyzed: 08/30/22

Diesel Range Organics (C10-C28)	299	25.0	250	91.6	83.0	38-132	4.77	20	
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			



QC Summary Data

Durango Midstream	Project Name:	ABO - Coyote 12"	Reported:
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/1/2022 11:02:30AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2236011-BLK1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	ND	20.0							
LCS (2236011-BS1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	245	20.0	250		97.8	90-110			
LCS Dup (2236011-BSD1)					Prepared: 08/29/22 Analyzed: 08/29/22				
Chloride	244	20.0	250		97.7	90-110	0.121	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

Durango Midstream	Project Name:	ABO - Coyote 12"	
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Michael Moffit	09/01/22 11:02

- 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.





Page 13 of 14

## Envirotech Analytical Laboratory

Printed: 8/29/2022 11:04:15AM

## 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:	Durango Midstream	Date Received:	08/29/22 10:32	Work Order ID:	E208160
Phone:	(575) 676-3500	Date Logged In:	08/29/22 11:01	Logged In By:	Caitlin Christian
Email:	mmoffit@vertex.ca	Due Date:	09/02/22 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.

Report to:  
Michael Moffit



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Durango Midstream

Project Name: ABO - Coyote 12"

Work Order: E209045

Job Number: 21080-0001

Received: 9/12/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/16/22

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.  
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: 9/16/22

Michael Moffit  
10077 Grogans Mill Rd Ste 300  
The Woodlands, TX 77380



Project Name: ABO - Coyote 12"  
Workorder: E209045  
Date Received: 9/12/2022 8:50:00AM

Michael Moffit,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/12/2022 8:50:00AM, under the Project Name: ABO - Coyote 12".

The analytical test results summarized in this report with the Project Name: ABO - Coyote 12" 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**  
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## Sample Summary

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 09/16/22 13:54
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS22-01 4-8'	E209045-01A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
WS22-02 0-4'	E209045-02A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
WS22-02 4-8'	E209045-03A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
BS22-01 8'	E209045-04A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
BS22-02 8'	E209045-05A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
BS22-03 0.5'	E209045-06A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
BS22-04 2'	E209045-07A	Soil	09/07/22	09/12/22	Glass Jar, 4 oz.
BS22-05 2'	E209045-08A	Soil	09/07/22	09/12/22	Glass Jar, 4 oz.
BS22-06 2'	E209045-09A	Soil	09/07/22	09/12/22	Glass Jar, 4 oz.
WS22-03 0-4'	E209045-10A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
WS22-03 4-8'	E209045-11A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
WS22-04 0-4'	E209045-12A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.
WS22-04 4-8'	E209045-13A	Soil	09/06/22	09/12/22	Glass Jar, 4 oz.



## Sample Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/16/2022 1:54:01PM
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WS22-01 4-8'

E209045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	93.4 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	85.4	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-02 0-4'

E209045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	91.8 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	347	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-02 4-8'

E209045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	86.4 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	ND	20.0	1	09/13/22	09/15/22	





## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-01 8'

E209045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	31.7	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	97.9 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	302	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-02 8'

E209045-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	90.9 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	415	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-03 0.5'

E209045-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	89.5 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4	89.5 %	70-130		09/12/22	09/13/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	100 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	116	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-04 2'

E209045-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		106 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		106 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane		90.2 %	50-200	09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	133	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-05 2'

E209045-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		103 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		103 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2238016	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane		94.8 %	50-200	09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2238028	
Chloride	54.3	20.0	1	09/13/22	09/15/22	





## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

BS22-06 2'

E209045-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Benzene	ND	0.0250	1	09/12/22	09/13/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/13/22	
Toluene	ND	0.0250	1	09/12/22	09/13/22	
o-Xylene	ND	0.0250	1	09/12/22	09/13/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/13/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		105 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/13/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/12/22	09/13/22	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/12/22	09/13/22	
Surrogate: Toluene-d8		105 %	70-130	09/12/22	09/13/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2238016	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane		90.1 %	50-200	09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2238028	
Chloride	195	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-03 0-4'

E209045-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	96.5 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	155	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-03 4-8'

E209045-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	85.7 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	2100	40.0	2	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-04 0-4'

E209045-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/12/22	09/14/22	
Surrogate: Toluene-d8		106 %	70-130	09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene		103 %	70-130	09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/12/22	09/14/22	
Surrogate: Toluene-d8		106 %	70-130	09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane		94.9 %	50-200	09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	126	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: ABO - Coyote 12"  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:54:01PM

WS22-04 4-8'

E209045-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	105 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238016
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/15/22	
Surrogate: n-Nonane	98.2 %	50-200		09/12/22	09/15/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	ND	20.0	1	09/13/22	09/15/22	





## QC Summary Data

Durango Midstream	Project Name:	ABO - Coyote 12"	Reported:
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/16/2022 1:54:01PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

## Blank (2238010-BLK1)

Prepared: 09/12/22 Analyzed: 09/13/22

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: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

## LCS (2238010-BS1)

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	1.85	0.0250	2.50		74.1	70-130			
Ethylbenzene	2.03	0.0250	2.50		81.3	70-130			
Toluene	1.86	0.0250	2.50		74.3	70-130			
o-Xylene	1.88	0.0250	2.50		75.3	70-130			
p,m-Xylene	3.75	0.0500	5.00		75.1	70-130			
Total Xylenes	5.64	0.0250	7.50		75.2	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

## Matrix Spike (2238010-MS1)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	2.13	0.0250	2.50	ND	85.2	48-131			
Ethylbenzene	2.25	0.0250	2.50	ND	89.8	45-135			
Toluene	2.17	0.0250	2.50	ND	87.0	48-130			
o-Xylene	2.09	0.0250	2.50	ND	83.6	43-135			
p,m-Xylene	4.15	0.0500	5.00	ND	82.9	43-135			
Total Xylenes	6.24	0.0250	7.50	ND	83.2	43-135			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

## Matrix Spike Dup (2238010-MSD1)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	1.87	0.0250	2.50	ND	74.9	48-131	12.8	23	
Ethylbenzene	1.99	0.0250	2.50	ND	79.5	45-135	12.2	27	
Toluene	1.92	0.0250	2.50	ND	76.7	48-130	12.5	24	
o-Xylene	1.86	0.0250	2.50	ND	74.2	43-135	11.9	27	
p,m-Xylene	3.69	0.0500	5.00	ND	73.8	43-135	11.7	27	
Total Xylenes	5.54	0.0250	7.50	ND	73.9	43-135	11.8	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/16/2022 1:54:01PM
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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 (2238010-BLK1)

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

## LCS (2238010-BS2)

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

## Matrix Spike (2238010-MS2)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

## Matrix Spike Dup (2238010-MSD2)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	0.425	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported:  9/16/2022 1:54:01PM
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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 (2238016-BLK1)					Prepared: 09/12/22 Analyzed: 09/14/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			

LCS (2238016-BS1)					Prepared: 09/12/22 Analyzed: 09/14/22				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

Matrix Spike (2238016-MS1)					Source: E209045-06		Prepared: 09/12/22 Analyzed: 09/14/22		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

Matrix Spike Dup (2238016-MSD1)					Source: E209045-06		Prepared: 09/12/22 Analyzed: 09/14/22		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	1.41	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	<b>Reported:</b> 9/16/2022 1:54:01PM
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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 (2238028-BLK1)

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride ND 20.0

## LCS (2238028-BS1)

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 263 20.0 250 105 90-110

## Matrix Spike (2238028-MS1)

Source: E209044-21

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 271 20.0 250 ND 108 80-120

## Matrix Spike Dup (2238028-MSD1)

Source: E209044-21

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 268 20.0 250 ND 107 80-120 0.913 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

Durango Midstream	Project Name:	ABO - Coyote 12"	
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Michael Moffit	09/16/22 13:54

- 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

## Chain of Custody

Page 1 of 2

Client: <u>Durango</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>ABO-Coyote 12"</u>				Attention:				Lab WO# <u>E209045</u>				Job Number <u>21080-0001</u>				1D 2D 3D Standard			
Project Manager: <u>M. Moffitt</u>				Address: <u>On File</u>												CWA SDWA			
Address:				City, State, Zip				Analysis and Method								RCRA			
City, State, Zip				Phone:												State			
Phone: <u>On file</u>				Email:												NM CO UT AZ TX			
Report due by:																			
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	Remarks					
11:00	9/6	Soil	1	WS22-01	0-4'	1	✓	✓			✓								
11:05				WS22-01	4-8'	2													
11:10				WS22-02	0-4'	3													
11:15				WS22-02	4-8'	4													
10:00				BS22-01	8'	5													
10:05				BS22-02	8'	6													
10:10				BS22-03	0.5'	7													
10:00	9/7			BS22-04	2'	8													
10:05	9/7			BS22-05	2'	9													
10:20	9/7			BS22-06	2'	10													
Additional Instructions: <u>CC: Michael Moffitt &amp; Monica Peppin</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>M. Wiser</u>																			
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time		Received by: (Signature) <u>[Signature]</u>				Date		Time		Lab Use Only			
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time		Received by: (Signature) <u>[Signature]</u>				Date		Time		Received on ice: <u>Y</u> / N			
Relinquished by: (Signature) <u>[Signature]</u>				Date		Time		Received by: (Signature) <u>[Signature]</u>				Date		Time		T1 T2 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.																			


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## Envirotech Analytical Laboratory

Printed: 9/12/2022 1:03:22PM

## 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:	Durango Midstream	Date Received:	09/12/22 08:50	Work Order ID:	E209045
Phone:	(575) 676-3500	Date Logged In:	09/12/22 10:20	Logged In By:	Caitlin Christian
Email:	mmoffitt@vertex.ca	Due Date:	09/16/22 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? No
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: CourierComments/Resolution

Sample #1 WS22-01 0-4, was received empty. Spoke with client and removed sample #1 from workorder.

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.



## Project Information

## Chain of Custody

Page 1 of 2

Client: <u>Purango</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>ABO-Coyote 12"</u>				Attention:				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>M. Moffitt</u>				Address: <u>On File</u>				<u>E209045</u>		<u>21080-0001</u>					<u>K</u>				
Address:				City, State, Zip				Analysis and Method										RCRA	
City, State, Zip				Phone:														State	
Phone: <u>On file</u>				Email:														NM CO UT AZ TX	
Email:																			
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
<del>11:00</del>	<del>9/6</del>	<del>Soil</del>	<del>1</del>	<del>WS22-01</del>	<del>0-4'</del>	<del>1</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>				<del>Sample jar received empty 9/12/22 CC</del>						
11:05				WS22-01	4-8'	1													
11:10				WS22-02	0-4'	2													
11:15				WS22-02	4-8'	3													
10:00				BS22-01	8'	4													
10:05				BS22-02	8'	5													
10:10				BS22-03	0.5'	6													
10:00	9/7			BS22-04	2'	7													
10:05	9/7			BS22-05	2'	8													
10:20	9/7			BS22-06	2'	9													
Additional Instructions: <u>CC: Michael Moffitt; Monica Peppin</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>M. Wier</u>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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											
<u>[Signature]</u>				<u>[Signature]</u>		9-9-22	11:15	Lab Use Only											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <u>Y</u> / N											
<u>[Signature]</u>		9-9-22	18:40	<u>[Signature]</u>		9/12/22	8:50	T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
<u>[Signature]</u>				<u>[Signature]</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.																			


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Report to:  
Michael Moffit



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Durango Midstream

Project Name: 22E-02945

Work Order: E209046

Job Number: 21080-0001

Received: 9/12/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/16/22

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.  
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: 9/16/22



Michael Moffit  
10077 Grogans Mill Rd Ste 300  
The Woodlands, TX 77380

Project Name: 22E-02945  
Workorder: E209046  
Date Received: 9/12/2022 8:40:00AM

Michael Moffit,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/12/2022 8:40:00AM, under the Project Name: 22E-02945.

The analytical test results summarized in this report with the Project Name: 22E-02945 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)

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**Lynn Jarboe**  
Technical Representative/Client Services  
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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)

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## Sample Summary

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 22E-02945 Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 09/16/22 13:56
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-08	E209046-01A	Soil	09/08/22	09/12/22	Glass Jar, 4 oz.
BS22-09	E209046-02A	Soil	09/08/22	09/12/22	Glass Jar, 4 oz.
BS22-10	E209046-03A	Soil	09/08/22	09/12/22	Glass Jar, 4 oz.
BS22-11	E209046-04A	Soil	09/08/22	09/12/22	Glass Jar, 4 oz.
BS22-12	E209046-05A	Soil	09/08/22	09/12/22	Glass Jar, 4 oz.



## Sample Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 22E-02945 Project Number: 21080-0001 Project Manager: Michael Moffit	<b>Reported:</b> 9/16/2022 1:56:55PM
---	--	---

BS22-08

E209046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	104 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.5 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	104 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238011
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	99.4 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	20.2	20.0	1	09/13/22	09/15/22	





## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 22E-02945  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:56:55PM

BS22-09

E209046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	102 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238011
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	78.7 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	ND	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 22E-02945  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:56:55PM

BS22-10

E209046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	103 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	103 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238011
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	79.9 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	ND	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 22E-02945  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:56:55PM

BS22-11

E209046-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238010
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238011
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	97.4 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238028
Chloride	32.1	20.0	1	09/13/22	09/15/22	



## Sample Data

Durango Midstream  
10077 Grogans Mill Rd Ste 300  
The Woodlands TX, 77380

Project Name: 22E-02945  
Project Number: 21080-0001  
Project Manager: Michael Moffit

**Reported:**  
9/16/2022 1:56:55PM

BS22-12

E209046-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Benzene	ND	0.0250	1	09/12/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/14/22	
Toluene	ND	0.0250	1	09/12/22	09/14/22	
o-Xylene	ND	0.0250	1	09/12/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/14/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/12/22	09/14/22	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/12/22	09/14/22	
Surrogate: Toluene-d8	106 %	70-130		09/12/22	09/14/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2238011	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/14/22	
Surrogate: n-Nonane	89.6 %	50-200		09/12/22	09/14/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2238028	
Chloride	ND	20.0	1	09/13/22	09/15/22	



## QC Summary Data

Durango Midstream	Project Name:	22E-02945	Reported:
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/16/2022 1:56:55PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

## Blank (2238010-BLK1)

Prepared: 09/12/22 Analyzed: 09/13/22

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: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

## LCS (2238010-BS1)

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	1.85	0.0250	2.50		74.1	70-130			
Ethylbenzene	2.03	0.0250	2.50		81.3	70-130			
Toluene	1.86	0.0250	2.50		74.3	70-130			
o-Xylene	1.88	0.0250	2.50		75.3	70-130			
p,m-Xylene	3.75	0.0500	5.00		75.1	70-130			
Total Xylenes	5.64	0.0250	7.50		75.2	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

## Matrix Spike (2238010-MS1)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	2.13	0.0250	2.50	ND	85.2	48-131			
Ethylbenzene	2.25	0.0250	2.50	ND	89.8	45-135			
Toluene	2.17	0.0250	2.50	ND	87.0	48-130			
o-Xylene	2.09	0.0250	2.50	ND	83.6	43-135			
p,m-Xylene	4.15	0.0500	5.00	ND	82.9	43-135			
Total Xylenes	6.24	0.0250	7.50	ND	83.2	43-135			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

## Matrix Spike Dup (2238010-MSD1)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Benzene	1.87	0.0250	2.50	ND	74.9	48-131	12.8	23	
Ethylbenzene	1.99	0.0250	2.50	ND	79.5	45-135	12.2	27	
Toluene	1.92	0.0250	2.50	ND	76.7	48-130	12.5	24	
o-Xylene	1.86	0.0250	2.50	ND	74.2	43-135	11.9	27	
p,m-Xylene	3.69	0.0500	5.00	ND	73.8	43-135	11.7	27	
Total Xylenes	5.54	0.0250	7.50	ND	73.9	43-135	11.8	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			





## QC Summary Data

Durango Midstream	Project Name:	22E-02945	<b>Reported:</b>
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/16/2022 1:56:55PM

## 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 (2238010-BLK1)

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

## LCS (2238010-BS2)

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

## Matrix Spike (2238010-MS2)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

## Matrix Spike Dup (2238010-MSD2)

Source: E209045-06

Prepared: 09/12/22 Analyzed: 09/13/22

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	0.425	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 22E-02945 Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/16/2022 1:56:55PM
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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 (2238011-BLK1)

Prepared: 09/12/22 Analyzed: 09/14/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.3	50-200			

## LCS (2238011-BS1)

Prepared: 09/12/22 Analyzed: 09/14/22

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

## Matrix Spike (2238011-MS1)

Source: E209031-04

Prepared: 09/12/22 Analyzed: 09/14/22

Diesel Range Organics (C10-C28)	11500	500	250	10100	582	38-132			M4
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			

## Matrix Spike Dup (2238011-MSD1)

Source: E209031-04

Prepared: 09/12/22 Analyzed: 09/14/22

Diesel Range Organics (C10-C28)	11400	500	250	10100	513	38-132	1.50	20	M4
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: 22E-02945 Project Number: 21080-0001 Project Manager: Michael Moffit	<b>Reported:</b> 9/16/2022 1:56:55PM
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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 (2238028-BLK1)

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride ND 20.0

## LCS (2238028-BS1)

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 263 20.0 250 105 90-110

## Matrix Spike (2238028-MS1)

Source: E209044-21

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 271 20.0 250 ND 108 80-120

## Matrix Spike Dup (2238028-MSD1)

Source: E209044-21

Prepared: 09/13/22 Analyzed: 09/15/22

Chloride 268 20.0 250 ND 107 80-120 0.913 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

Durango Midstream	Project Name:	22E-02945	
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Michael Moffit	09/16/22 13:56

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



Client: Durango Midstream (Vertex)Project: 22E-02945Sampler: Fernando RodriguezPhone: 575 988 2681Email(s): mmoffitt@vertex.ca mpeppin@vertex.caProject Manager: Michael Moffitt

RUSH?

☐ 1d☐ 3d

Lab Use Only		Analysis and Method								Lab Only		
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number												
<u>PE209046</u>												
<u>21080-0001</u>												

Page

of

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0												
B522-08	9/8	14:00	Soil	4oz glass jar	✓	✓	✓	✓											1	
B522-09	9/8	14:10	Soil	4oz glass jar	✓	✓	✓	✓											2	
B522-10	9/8	14:20	Soil	4oz glass jar	✓	✓	✓	✓											3	
B522-11	9/8	14:30	Soil	4oz glass jar	✓	✓	✓	✓											4	
B522-12	9/8	14:40	Soil	4oz glass jar	✓	✓	✓	✓											5	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<u>[Signature]</u>	9/8	19:00	<u>[Signature]</u>	9-9-22	10:15	**Received on Ice Y/ N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2
<u>[Signature]</u>	9-9-22	4:15	<u>Carla Cat</u>	9/12/22	8:40	AVG Temp °C	4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

\*\*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.

<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing info:
		<u>Direct Bill to Durango/Amber Groves</u>



5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

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Ph (505) 632-0615 Fx (505) 632-1865

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 envirotech-inc.com  
 Laboratory: envirotech-inc.com



## Envirotech Analytical Laboratory

Printed: 9/12/2022 12:56:50PM

## 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:	Durango Midstream	Date Received:	09/12/22 08:40	Work Order ID:	E209046
Phone:	(575) 676-3500	Date Logged In:	09/12/22 10:26	Logged In By:	Caitlin Christian
Email:	mmoffitt@vertex.ca	Due Date:	09/16/22 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: CourierComments/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.

Report to:  
Michael Moffit



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Durango Midstream

Project Name: ABO - Coyote 12"

Work Order: E209069

Job Number: 21080-0001

Received: 9/15/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/21/22

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.  
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: 9/21/22

Michael Moffit  
10077 Grogans Mill Rd Ste 300  
The Woodlands, TX 77380



Project Name: ABO - Coyote 12"  
Workorder: E209069  
Date Received: 9/15/2022 10:40:00AM

Michael Moffit,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/15/2022 10:40:00AM, under the Project Name: ABO - Coyote 12".

The analytical test results summarized in this report with the Project Name: ABO - Coyote 12" 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  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**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)

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Sample Summary

Durango Midstream	Project Name:	ABO - Coyote 12"	Reported:  09/21/22 17:41
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS22 - 01 0 - 4'	E209069-01A	Soil	09/13/22	09/15/22	Glass Jar, 4 oz.





## Sample Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/21/2022 5:41:56PM
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WS22 - 01 0 - 4'

E209069-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2238068	
Benzene	ND	0.0250	1	09/15/22	09/17/22	
Ethylbenzene	0.0367	0.0250	1	09/15/22	09/17/22	
Toluene	ND	0.0250	1	09/15/22	09/17/22	
o-Xylene	ND	0.0250	1	09/15/22	09/17/22	
p,m-Xylene	ND	0.0500	1	09/15/22	09/17/22	
Total Xylenes	ND	0.0250	1	09/15/22	09/17/22	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		09/15/22	09/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2238068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/22	09/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.6 %	70-130		09/15/22	09/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2238061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
Surrogate: n-Nonane	85.4 %	50-200		09/19/22	09/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2239002	
Chloride	127	20.0	1	09/18/22	09/20/22	



## QC Summary Data

Durango Midstream	Project Name:	ABO - Coyote 12"	<b>Reported:</b>
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	
The Woodlands TX, 77380	Project Manager:	Michael Moffit	9/21/2022 5:41:56PM

## Volatile Organics by EPA 8021B

Analyst: RKS

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 (2238068-BLK1)

Prepared: 09/15/22 Analyzed: 09/17/22

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	8.06		8.00		101	70-130			

## LCS (2238068-BS1)

Prepared: 09/15/22 Analyzed: 09/17/22

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	4.39	0.0250	5.00		87.8	70-130			
Toluene	4.63	0.0250	5.00		92.7	70-130			
o-Xylene	4.47	0.0250	5.00		89.4	70-130			
p,m-Xylene	8.88	0.0500	10.0		88.8	70-130			
Total Xylenes	13.3	0.0250	15.0		89.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

## LCS Dup (2238068-BSD1)

Prepared: 09/15/22 Analyzed: 09/17/22

Benzene	5.27	0.0250	5.00		105	70-130	0.629	20	
Ethylbenzene	4.41	0.0250	5.00		88.2	70-130	0.375	20	
Toluene	4.67	0.0250	5.00		93.3	70-130	0.712	20	
o-Xylene	4.50	0.0250	5.00		89.9	70-130	0.567	20	
p,m-Xylene	8.91	0.0500	10.0		89.1	70-130	0.337	20	
Total Xylenes	13.4	0.0250	15.0		89.4	70-130	0.414	20	
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/21/2022 5:41:56PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2238068-BLK1)

Prepared: 09/15/22 Analyzed: 09/17/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		81.0	70-130			

## LCS (2238068-BS2)

Prepared: 09/15/22 Analyzed: 09/17/22

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			

## LCS Dup (2238068-BSD2)

Prepared: 09/15/22 Analyzed: 09/17/22

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130	2.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.7	70-130			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	Reported: 9/21/2022 5:41:56PM
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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 (2238061-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			

## LCS (2238061-BS1)

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

## Matrix Spike (2238061-MS1)

Source: E209068-02

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			

## Matrix Spike Dup (2238061-MSD1)

Source: E209068-02

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	0.290	20	
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			



## QC Summary Data

Durango Midstream 10077 Grogans Mill Rd Ste 300 The Woodlands TX, 77380	Project Name: ABO - Coyote 12" Project Number: 21080-0001 Project Manager: Michael Moffit	<b>Reported:</b> 9/21/2022 5:41:56PM
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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 (2239002-BLK1)

Prepared: 09/18/22 Analyzed: 09/19/22

Chloride ND 20.0

## LCS (2239002-BS1)

Prepared: 09/18/22 Analyzed: 09/20/22

Chloride 250 20.0 250 100 90-110

## Matrix Spike (2239002-MS1)

Source: E209063-01

Prepared: 09/18/22 Analyzed: 09/20/22

Chloride 401 40.0 250 194 82.8 80-120

## Matrix Spike Dup (2239002-MSD1)

Source: E209063-01

Prepared: 09/18/22 Analyzed: 09/20/22

Chloride 451 40.0 250 194 103 80-120 11.9 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

Durango Midstream	Project Name:	ABO - Coyote 12"	
10077 Grogans Mill Rd Ste 300	Project Number:	21080-0001	Reported:
The Woodlands TX, 77380	Project Manager:	Michael Moffit	09/21/22 17:41

- 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.





## Envirotech Analytical Laboratory

Printed: 9/15/2022 11:01:42AM

## 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:	Durango Midstream	Date Received:	09/15/22 10:40	Work Order ID:	E209069
Phone:	(575) 676-3500	Date Logged In:	09/15/22 08:45	Logged In By:	Caitlin Christian
Email:	mmoffitt@vertex.ca	Due Date:	09/21/22 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.

Report to:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E209190

Job Number: 21080-0001

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/7/22

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.  
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: 10/7/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E209190  
Date Received: 10/3/2022 9:00:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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**  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**Alexa Michaels**  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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



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Chain of Custody etc.

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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/07/22 14:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-21 8'	E209190-01A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-22 8'	E209190-02A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-23 8'	E209190-03A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-24 8'	E209190-04A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-25 8'	E209190-05A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-26 8'	E209190-06A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-27 8'	E209190-07A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-28 8'	E209190-08A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-29 8'	E209190-09A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-30 8'	E209190-10A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-31 8'	E209190-11A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-32 8'	E209190-12A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-33 8'	E209190-13A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-34 8'	E209190-14A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:10:55PM
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BS22-21 8'

E209190-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.0 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL			Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
Surrogate: n-Nonane	115 %	50-200		10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS			Batch: 2241067
Chloride	181	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-22 8'

E209190-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	149	20.0	1	10/05/22	10/06/22	





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:10:55PM
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BS22-23 8'

E209190-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.7 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
Surrogate: n-Nonane	118 %	50-200		10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241067	
Chloride	145	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-24 8'

E209190-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.5 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	71.9	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-25 8'

E209190-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.0 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241067	
Chloride	116	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-26 8'

E209190-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	155	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-27 8'

E209190-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.7 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	280	20.0	1	10/05/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-28 8'

E209190-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.2 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241067	
Chloride	221	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-29 8'

E209190-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.1 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	182	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-30 8'

E209190-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	42.9	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-31 8'

E209190-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.8 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	43.7	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-32 8'

E209190-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241048
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.3 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241057
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241067
Chloride	65.5	20.0	1	10/05/22	10/07/22	





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:10:55PM
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BS22-33 8'

E209190-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.4 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
Surrogate: n-Nonane	116 %	50-200		10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241067	
Chloride	63.6	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:10:55PM

BS22-34 8'

E209190-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.8 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241067	
Chloride	148	20.0	1	10/05/22	10/07/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 2:10:55PM
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## 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 (2241048-BLK1)

Prepared: 10/04/22 Analyzed: 10/07/22

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	8.09		8.00		101	70-130			

## LCS (2241048-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.14	0.0250	5.00		82.8	70-130			
Toluene	4.32	0.0250	5.00		86.4	70-130			
o-Xylene	4.24	0.0250	5.00		84.8	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.6	0.0250	15.0		84.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

## LCS Dup (2241048-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	4.87	0.0250	5.00		97.4	70-130	2.84	20	
Ethylbenzene	4.29	0.0250	5.00		85.8	70-130	3.56	20	
Toluene	4.46	0.0250	5.00		89.2	70-130	3.23	20	
o-Xylene	4.39	0.0250	5.00		87.7	70-130	3.31	20	
p,m-Xylene	8.72	0.0500	10.0		87.2	70-130	3.92	20	
Total Xylenes	13.1	0.0250	15.0		87.4	70-130	3.72	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported:  10/7/2022 2:10:55PM
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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 (2241048-BLK1) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.5	70-130			

LCS (2241048-BS2) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			

LCS Dup (2241048-BSD2) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130	4.45	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:10:55PM
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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 (2241057-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			

## LCS (2241057-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

## Matrix Spike (2241057-MS1)

Source: E209190-08

Prepared: 10/05/22 Analyzed: 10/06/22

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			

## Matrix Spike Dup (2241057-MSD1)

Source: E209190-08

Prepared: 10/05/22 Analyzed: 10/06/22

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.79	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b>  10/7/2022 2:10:55PM
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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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2241067-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chloride ND 20.0

## LCS (2241067-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chloride 253 20.0 250 101 90-110

## Matrix Spike (2241067-MS1)

Source: E209190-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chloride 449 20.0 250 181 107 80-120

## Matrix Spike Dup (2241067-MSD1)

Source: E209190-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chloride 439 20.0 250 181 103 80-120 2.40 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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/07/22 14:10

- 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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

1d

3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0							Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number													
PE209190													
21080-0001													
Page 1 of 2													

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0									
BS22-21 8'	09-29-2022	12:45	Soil	1 4oz Jar	X	X	X	X									1
BS22-22 8'	09-29-2022	12:50	Soil	1 4oz Jar	X	X	X	X									2
BS22-23 8'	09-29-2022	12:55	Soil	1 4oz Jar	X	X	X	X									3
BS22-24 8'		13:00															4
BS22-25 8'		13:05															5
BS22-26 8'		13:10															6
BS22-27 8'		13:15															7
BS22-28 8'		13:20															8
BS22-29 8'		13:25															9
BS22-30 8'		13:30															10

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>L. Pullman</u>	9-30-2022	07:00	<u>Monica Peppin</u>	9-30-2022	2:00p	**Received on Ice <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
<u>L. Pullman</u>	9-30-2022	4:15	<u>Carla Ch...</u>	10/3/22	9:00	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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only

Lab WO#

PE209190

Job Number

21080-0001

Page

2 of 2

Analysis and Method

lab Only

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPEReservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0									Lab Number	N/A (s) / Prsrv	Correct Cont
BS22-31 8'	9-29-2022	13:35	Soil	1 4oz Jar	X	X	X	X									11		
BS22-32 8'	9-29-2022	13:40	Soil	1 4oz Jar	X	X	X	X									12		
BS22-33 8'	9-29-2022	13:45	Soil	1 4oz Jar	X	X	X	X									13		
BS22-34 8'	9-29-2022	13:50	Soil	1 4oz Jar	X	X	X	X									14		
Relinquished by: (Signature) <u>L. Pullman</u>	Date 9-30-2022	Time 07:00	Received by: (Signature) <u>[Signature]</u>	Date 9-30-22	Time 2:04	Lab Use Only													
Relinquished by: (Signature) <u>[Signature]</u>	Date 9-30-22	Time 4:15	Received by: (Signature) <u>[Signature]</u>	Date 10/3/22	Time 9:00	**Received on Ice <u>Y</u> / N T1 _____ T2 _____ 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														
**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.																			
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.					Chain of Custody					Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.									



5796 US Highway 64, Farmington, NM 87401  
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865  
Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com

## Envirotech Analytical Laboratory

Printed: 10/3/2022 10:36:37AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/03/22 09:00	Work Order ID:	E209190
Phone:	(575) 748-0176	Date Logged In:	09/30/22 17:32	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/07/22 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.



Report to:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E209191

Job Number: 21080-0001

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/7/22

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.  
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: 10/7/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E209191  
Date Received: 10/3/2022 9:00:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**Lynn Jarboe**  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/07/22 15:30
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-14 4'	E209191-01A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
BS22-15 4'	E209191-02A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-05 0 - 4'	E209191-03A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-06 0 - 4'	E209191-04A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-07 0 - 4'	E209191-05A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-08 2 - 4'	E209191-06A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-09 0 - 5'	E209191-07A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-10 0 - 5'	E209191-08A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-11 0 - 8'	E209191-09A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
WS22-12 0 - 8'	E209191-10A	Soil	09/28/22	10/03/22	Glass Jar, 4 oz.
BS22-16 8'	E209191-11A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-17 2'	E209191-12A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-18 2'	E209191-13A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-19 2'	E209191-14A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
BS22-20 2'	E209191-15A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-13 4 - 8'	E209191-16A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-14 0 - 2'	E209191-17A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-15 0 - 2'	E209191-18A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-31 0 - 5'	E209191-19A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-16 0 - 5'	E209191-20A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 3:30:10PM
--	--	---

BS22-14 4'

E209191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	197	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

BS22-15 4'

E209191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.7 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	21.6	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 3:30:10PM
--	--	----------------------------------

WS22-05 0 - 4'

E209191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
Surrogate: n-Nonane	93.4 %	50-200		10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	ND	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-06 0 - 4'

E209191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	ND	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-07 0 - 4'

E209191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	85.2	20.0	1	10/05/22	10/06/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-08 2 - 4'

E209191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	ND	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-09 0 - 5'

E209191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	290	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-10 0 - 5'

E209191-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.2 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	326	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-11 0 - 8'

E209191-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.5 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	528	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-12 0 - 8'

E209191-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	137	20.0	1	10/05/22	10/06/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

BS22-16 8'

E209191-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	28.0	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	52.2	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 3:30:10PM
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BS22-17 2'

E209191-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>		113 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	171	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

BS22-18 2'

E209191-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	42.2	25.0	1	10/05/22	10/06/22	
Oil Range Organics (C28-C36)	51.5	50.0	1	10/05/22	10/06/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/05/22	10/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	55.9	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

BS22-19 2'

E209191-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.8 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	33.3	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	233	20.0	1	10/05/22	10/06/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

BS22-20 2'

E209191-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	157	20.0	1	10/05/22	10/06/22	





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 3:30:10PM
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WS22-13 4 - 8'

E209191-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	35.1	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
<i>Surrogate: n-Nonane</i>		112 %	50-200	10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	45.6	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-14 0 - 2'

E209191-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	27.3	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	53.3	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 3:30:10PM

WS22-15 0 - 2'

E209191-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2241049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241068
Chloride	133	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 3:30:10PM
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WS22-31 0 - 5'

E209191-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.7 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
Surrogate: n-Nonane	115 %	50-200		10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	254	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 3:30:10PM
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WS22-16 0 - 5'

E209191-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2241049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.1 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/05/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/05/22	10/07/22	
Surrogate: n-Nonane	114 %	50-200		10/05/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241068	
Chloride	242	20.0	1	10/05/22	10/07/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 3:30:10PM
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## Volatile Organics by EPA 8021B

Analyst: RKS

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 (2241049-BLK1)

Prepared: 10/04/22 Analyzed: 10/07/22

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	8.13		8.00		102	70-130			

## LCS (2241049-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	3.91	0.0250	5.00		78.2	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.25	0.0250	5.00		84.9	70-130			
o-Xylene	4.33	0.0250	5.00		86.5	70-130			
p,m-Xylene	8.53	0.0500	10.0		85.3	70-130			
Total Xylenes	12.9	0.0250	15.0		85.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

## LCS Dup (2241049-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	4.60	0.0250	5.00		91.9	70-130	16.1	20	
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130	16.7	20	
Toluene	4.99	0.0250	5.00		99.9	70-130	16.2	20	
o-Xylene	5.11	0.0250	5.00		102	70-130	16.7	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	16.4	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	16.5	20	
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 3:30:10PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2241049-BLK1)

Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			

## LCS (2241049-BS2)

Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

## LCS Dup (2241049-BSD2)

Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130	8.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 3:30:10PM
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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 (2241058-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.1		50.0		122	50-200			

## LCS (2241058-BS1)

Prepared: 10/05/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	206	25.0	250		82.4	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

## Matrix Spike (2241058-MS1)

Source: E209191-05

Prepared: 10/05/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.5	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

## Matrix Spike Dup (2241058-MSD1)

Source: E209191-05

Prepared: 10/05/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.1	38-132	2.69	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported:  10/7/2022 3:30:10PM
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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 (2241068-BLK1)					Prepared: 10/05/22 Analyzed: 10/06/22				
Chloride	ND	20.0							
LCS (2241068-BS1)					Prepared: 10/05/22 Analyzed: 10/06/22				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2241068-MS1)					Source: E209191-01		Prepared: 10/05/22 Analyzed: 10/06/22		
Chloride	555	20.0	250	197	143	80-120			M2
Matrix Spike Dup (2241068-MSD1)					Source: E209191-01		Prepared: 10/05/22 Analyzed: 10/06/22		
Chloride	489	20.0	250	197	117	80-120	12.6	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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/07/22 15:30

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: Mr. Wter

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

1d

3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	N/A (s) / Cont/Prsrv
Job Number											
PE 209191											
21080 - 0001											
Page of											

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0							Lab Number	Correct Cont/Prsrv
<del>BS22-14</del> BS22-14 4'	9-28-22	09:15	Soil	1 4oz Jar	X	X	X	X							1	
BS22-15 4'	9-28-22	09:20	Soil	1 4oz Jar	X	X	X	X							2	
WS22-05 0-4'	9-28-22	09:30	Soil	1 4oz Jar	X	X	X	X							3	
WS22-06 0-4'		09:40													4	
WS22-07 0-4'		12:00													5	
WS22-08 2-4'		12:10													6	
WS22-09 0-5'		14:20													7	
WS22-10 0-5'		14:25													8	
WS22-11 0-8'		14:30													9	
WS22-12 0-8'		14:35													10	

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only		
<i>[Signature]</i>		9-30-22	07:00	<i>[Signature]</i>		9-30-22	2:00p	**Received on Ice <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N		
<i>[Signature]</i>		9-30-22	4:15p	<i>[Signature]</i>		10/3/22	9:00	T1 _____ T2 _____ 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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



S796 US Highway 64, Farmington, NM 87401  
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865  
 Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
 laboratory@envirotech-inc.com



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d  
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	N/A(s) / Prsrv
Job Number											
PE209091											
21080-0001											
of											

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPER/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0							Lab Number	Correct Cont
BS22-16 8'	9-29-2022	10:15	Sol	1 4oz Jar	X	X	X	X							11	
BS22-17 2'	9-29-2022	10:20	Sol	1 4oz Jar	X	X	X	X							12	
BS22-18 2'	9-29-2022	10:25	Sol	1 4oz Jar	X	X	X	X							13	
BS22-19 2'		10:30													14	
BS22-20 2'		10:35													15	
WS22-13 4-8'		10:40													16	
WS22-14 0-2'		10:45													17	
WS22-15 0-2'		10:50													18	
WS22-31 0-5'		07:15													19	
WS22-16 0-5'		07:20													20	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	09-30-2022	07:00	<i>[Signature]</i>	9-30-22	2:00p	**Received on Ice <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
<i>[Signature]</i>	9-30-22	4:15p	<i>[Signature]</i>	10/3/22	9:00	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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



5796 US Highway 64, Farmington, NM 87401  
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865  
 Ph (970) 259-0615 Fx (800) 362-1879

envirotech-inc.com  
 laboratory@envirotech-inc.com



## Envirotech Analytical Laboratory

Printed: 10/3/2022 10:49:24AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/03/22 09:00	Work Order ID:	E209191
Phone:	(575) 748-0176	Date Logged In:	09/30/22 17:36	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/07/22 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

Project ABO-Coyote 12 Steel Line has been separated into 2 reports due to sample volume. Workorders are as follows:  
E209191 & E209192

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:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E209192

Job Number: 21080-0001

Received: 10/3/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/7/22

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.  
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: 10/7/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E209192  
Date Received: 10/3/2022 9:00:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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**  
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**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Chain of Custody etc.

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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/07/22 14:07
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS22-17 0 - 5'	E209192-01A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-18 0 - 8'	E209192-02A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-19 0 - 8'	E209192-03A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-20 0 - 8'	E209192-04A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-21 0 - 8'	E209192-05A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-22 0 - 8'	E209192-06A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-23 0 - 8'	E209192-07A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-24 0 - 8'	E209192-08A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-25 0 - 8'	E209192-09A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-26 0 - 8'	E209192-10A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-27 0 - 8'	E209192-11A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-28 0 - 8'	E209192-12A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-29 0 - 8'	E209192-13A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
WS22-30 0 - 8'	E209192-14A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 2:07:33PM
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WS22-17 0 - 5'

E209192-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.4 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	129	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-18 0 - 8'

E209192-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.0 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	127	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-19 0 - 8'

E209192-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.3 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>		115 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	120	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 2:07:33PM
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WS22-20 0 - 8'

E209192-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.0 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>		111 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	109	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-21 0 - 8'

E209192-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.4 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	241	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-22 0 - 8'

E209192-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.3 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	186	20.0	1	10/05/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-23 0 - 8'

E209192-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.4 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	190	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-24 0 - 8'

E209192-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.2 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	114	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-25 0 - 8'

E209192-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.3 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	205	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-26 0 - 8'

E209192-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.3 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	513	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-27 0 - 8'

E209192-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	412	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-28 0 - 8'

E209192-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2241050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.7 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2241059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2241069	
Chloride	382	20.0	1	10/05/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-29 0 - 8'

E209192-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.6 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	278	20.0	1	10/05/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/7/2022 2:07:33PM

WS22-30 0 - 8'

E209192-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Benzene	ND	0.0250	1	10/04/22	10/06/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/06/22	
Toluene	ND	0.0250	1	10/04/22	10/06/22	
o-Xylene	ND	0.0250	1	10/04/22	10/06/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/06/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/06/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241050
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/06/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.4 %	70-130	10/04/22	10/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241059
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241069
Chloride	137	20.0	1	10/05/22	10/07/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:07:33PM
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## 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 (2241050-BLK1)

Prepared: 10/04/22 Analyzed: 10/06/22

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	8.17		8.00		102	70-130			

## LCS (2241050-BS1)

Prepared: 10/04/22 Analyzed: 10/06/22

Benzene	4.81	0.0250	5.00		96.2	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.24	0.0250	5.00		84.8	70-130			
o-Xylene	4.11	0.0250	5.00		82.3	70-130			
p,m-Xylene	8.14	0.0500	10.0		81.4	70-130			
Total Xylenes	12.3	0.0250	15.0		81.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

## LCS Dup (2241050-BSD1)

Prepared: 10/04/22 Analyzed: 10/06/22

Benzene	5.18	0.0250	5.00		104	70-130	7.37	20	
Ethylbenzene	4.32	0.0250	5.00		86.4	70-130	7.48	20	
Toluene	4.56	0.0250	5.00		91.3	70-130	7.39	20	
o-Xylene	4.41	0.0250	5.00		88.3	70-130	7.01	20	
p,m-Xylene	8.75	0.0500	10.0		87.5	70-130	7.17	20	
Total Xylenes	13.2	0.0250	15.0		87.7	70-130	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported:  10/7/2022 2:07:33PM
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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 (2241050-BLK1) Prepared: 10/04/22 Analyzed: 10/06/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.3	70-130			

LCS (2241050-BS2) Prepared: 10/04/22 Analyzed: 10/06/22

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		87.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.8	70-130			

LCS Dup (2241050-BSD2) Prepared: 10/04/22 Analyzed: 10/06/22

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130	7.87	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.56		8.00		81.9	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/7/2022 2:07:33PM
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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 (2241059-BLK1)

Prepared: 10/05/22 Analyzed: 10/05/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

## LCS (2241059-BS1)

Prepared: 10/05/22 Analyzed: 10/05/22

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

## Matrix Spike (2241059-MS1)

Source: E210021-04

Prepared: 10/05/22 Analyzed: 10/05/22

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

## Matrix Spike Dup (2241059-MSD1)

Source: E210021-04

Prepared: 10/05/22 Analyzed: 10/05/22

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	0.359	20	
Surrogate: n-Nonane	55.4		50.0		111	50-200			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/7/2022 2:07:33PM
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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 (2241069-BLK1)

Prepared: 10/05/22 Analyzed: 10/07/22

Chloride ND 20.0

## LCS (2241069-BS1)

Prepared: 10/05/22 Analyzed: 10/07/22

Chloride 270 20.0 250 108 90-110

## Matrix Spike (2241069-MS1)

Source: E209192-01

Prepared: 10/05/22 Analyzed: 10/07/22

Chloride 377 20.0 250 129 99.1 80-120

## Matrix Spike Dup (2241069-MSD1)

Source: E209192-01

Prepared: 10/05/22 Analyzed: 10/07/22

Chloride 362 20.0 250 129 93.4 80-120 3.88 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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/07/22 14:07

- 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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only

Lab WO#

PE209192

Job Number

21080-0001

Page

of

Analysis and Method

lab Only

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0									Lab Number	Correct Cont
WS22-17 0-5'	9-29-2022	07:25	Soil	1 4oz Jar	X	X	X	X									1	
WS22-18 0-8'	9-29-2022	07:35	Soil	1 4oz Jar	X	X	X	X									2	
WS22-19 0-8'	9-29-2022	07:40	Soil	1 4oz Jar	X	X	X	X									3	
WS22-20 0-8'		07:45															4	
WS22-21 0-8'		07:50															5	
WS22-22 0-8'		07:55															6	
WS22-23 0-8'		08:00															7	
WS22-24 0-8'		08:05															8	
WS22-25 0-8'		08:10															9	
WS22-26 0-8'		09:30															10	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	9-30-2022	07:00	<i>[Signature]</i>	9-30-22	2:00p	**Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
<i>[Signature]</i>	9-30-22	4:15p	<i>[Signature]</i>	10/3/22	9:00	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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fx (800) 362-1879

 envirotech-inc.com  
 laboratory@envirotech-inc.com



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: *L. Pullman*

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only

Lab WO#

*PE209192*

Job Number

*21080-0001*

of

Analysis and Method

Lab Only

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0									Lab Number	N/A(s) /Prsrv	Correct Cont
WS22-27 0-8'	9-29-2022	09:35	Soil	1 4oz Jar	X	X	X	X									11		
WS22-28 0-8'	9-29-2022	09:40	Soil	1 4oz Jar	X	X	X	X									12		
WS22-29 0-8'	9-29-2022	09:45	Soil	1 4oz Jar	X	X	X	X									13		
WS22-30 0-8'	9-29-2022	09:50	Soil	1 4oz Jar	X	X	X	X									14		
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-30-2022	Time 07:00	Received by: (Signature) <i>[Signature]</i>	Date 9-30-2022	Time 2:00p	Lab Use Only													
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-30-22	Time 4:15p	Received by: (Signature) <i>[Signature]</i>	Date 10/3/22	Time 9:00	**Received on Ice Y/ N T1 _____ T2 _____ 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														
**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.																			
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.					Chain of Custody					Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.									



5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fx (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com

## Envirotech Analytical Laboratory

Printed: 10/3/2022 10:53:31AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/03/22 09:00	Work Order ID:	E209192
Phone:	(575) 748-0176	Date Logged In:	09/30/22 17:39	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/07/22 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

Project ABO-Coyote 12 Steel Line has been separated into 2 reports due to sample volume. Workorders are as follows:  
E209191 & E209192

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:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E210009

Job Number: 21080-0001

Received: 10/4/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/10/22

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.  
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: 10/10/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E210009  
Date Received: 10/4/2022 11:00:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2022 11:00:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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**  
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Sample Custody Officer  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/22 16:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-35 5'	E210009-01A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-36 5'	E210009-02A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-37 5'	E210009-03A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-38 5'	E210009-04A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-39 5'	E210009-05A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-40 5'	E210009-06A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-41 5'	E210009-07A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-44 4'	E210009-08A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-45 4'	E210009-09A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-46 4'	E210009-10A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-47 4'	E210009-11A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-48 5'	E210009-12A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-49 5'	E210009-13A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-50 5'	E210009-14A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-51 5'	E210009-15A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-52 0.5'	E210009-16A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-53 0.5'	E210009-17A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-54 0.5'	E210009-18A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-55 0.5'	E210009-19A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-56 0.5'	E210009-20A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-35 5'

E210009-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.7 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL			Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	101 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS			Batch: 2241090
Chloride	172	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-36 5'

E210009-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	427	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-37 5'

E210009-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.3 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	114 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	286	20.0	1	10/06/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-38 5'

E210009-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	282	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-39 5'

E210009-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.8 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	237	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-40 5'

E210009-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.4 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	114 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	172	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-41 5'

E210009-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.5 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	116 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	233	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-44 4'

E210009-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	36.9	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-45 4'

E210009-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>		114 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	ND	20.0	1	10/06/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-46 4'

E210009-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.9 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	ND	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-47 4'

E210009-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.6 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	116 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	31.4	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-48 5'

E210009-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	ND	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-49 5'

E210009-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.5 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	ND	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-50 5'

E210009-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		97.7 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	63.8	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-51 5'

E210009-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.6 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	60.5	20.0	1	10/06/22	10/07/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-52 0.5'

E210009-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.5 %	70-130	10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	371	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-53 0.5'

E210009-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/07/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/07/22	
Toluene	ND	0.0250	1	10/04/22	10/07/22	
o-Xylene	ND	0.0250	1	10/04/22	10/07/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/07/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/07/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.7 %	70-130		10/04/22	10/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	90.1 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	141	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-54 0.5'

E210009-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/08/22	
Toluene	ND	0.0250	1	10/04/22	10/08/22	
o-Xylene	ND	0.0250	1	10/04/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		95.5 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	462	20.0	1	10/06/22	10/07/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:01:05PM

BS22-55 0.5'

E210009-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Benzene	ND	0.0250	1	10/04/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/08/22	
Toluene	ND	0.0250	1	10/04/22	10/08/22	
o-Xylene	ND	0.0250	1	10/04/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241051
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.6 %	70-130	10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241076
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241090
Chloride	397	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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BS22-56 0.5'

E210009-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Benzene	ND	0.0250	1	10/04/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/04/22	10/08/22	
Toluene	ND	0.0250	1	10/04/22	10/08/22	
o-Xylene	ND	0.0250	1	10/04/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/04/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/04/22	10/08/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2241051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/22	10/08/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.6 %	70-130		10/04/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2241076	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/07/22	
Surrogate: n-Nonane	117 %	50-200		10/06/22	10/07/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2241090	
Chloride	62.3	20.0	1	10/06/22	10/08/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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## 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 (2241051-BLK1)

Prepared: 10/04/22 Analyzed: 10/07/22

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	8.25		8.00		103	70-130			

## LCS (2241051-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	4.79	0.0250	5.00		95.8	70-130			
Ethylbenzene	4.14	0.0250	5.00		82.8	70-130			
Toluene	4.32	0.0250	5.00		86.5	70-130			
o-Xylene	4.24	0.0250	5.00		84.8	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.6	0.0250	15.0		84.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

## LCS Dup (2241051-BS1)

Prepared: 10/04/22 Analyzed: 10/07/22

Benzene	4.49	0.0250	5.00		89.7	70-130	6.57	20	
Ethylbenzene	3.88	0.0250	5.00		77.5	70-130	6.54	20	
Toluene	4.06	0.0250	5.00		81.1	70-130	6.37	20	
o-Xylene	3.99	0.0250	5.00		79.8	70-130	6.03	20	
p,m-Xylene	7.87	0.0500	10.0		78.7	70-130	6.34	20	
Total Xylenes	11.9	0.0250	15.0		79.1	70-130	6.24	20	
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			





QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported:  10/10/2022 4:01:05PM
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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 (2241051-BLK1) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.55		8.00		81.9	70-130			

LCS (2241051-BS2) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.50		8.00		81.3	70-130			

LCS Dup (2241051-BSD2) Prepared: 10/04/22 Analyzed: 10/07/22

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.5	70-130	6.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.56		8.00		82.0	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:01:05PM
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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 (2241076-BLK1)

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.9		50.0		118	50-200			

## LCS (2241076-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	60.0		50.0		120	50-200			

## Matrix Spike (2241076-MS1)

Source: E210009-13

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

## Matrix Spike Dup (2241076-MSD1)

Source: E210009-13

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	1.80	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/2022 4:01:05PM
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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 (2241090-BLK1)

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride ND 20.0

## LCS (2241090-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride 250 20.0 250 99.8 90-110

## Matrix Spike (2241090-MS1)

Source: E210009-01

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride 417 20.0 250 172 98.0 80-120

## Matrix Spike Dup (2241090-MSD1)

Source: E210009-01

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride 418 20.0 250 172 98.5 80-120 0.295 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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/10/22 16:01

- 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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTX by 8021	TPH by 418+ 805	Chloride by 300.0							Lab Number	Correct Cont./Prsrv
Job Number													
PE210009													
21080-0001													
1 of 4 64512													

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTX by 8021	TPH by 418+ 805	Chloride by 300.0							Lab Number	Correct Cont./Prsrv
BS22-35 5'	9-30-22	07:20	Soil	1 4oz Jar	X	X	X	X							1	
BS22-36 5'	9-30-22	07:25	Soil	1 4oz Jar	X	X	X	X							2	
BS22-37 5'	9-30-22	07:30	Soil	1 4oz Jar	X	X	X	X							3	
BS22-38 5'		07:35													4	
BS22-39 5'		07:40													5	
BS22-40 5'		07:45													6	
BS22-41 5'		07:50													7	
BS22-44 4'		09:30													8	
BS22-45 4'		09:35													9	
BS22-46 4'		09:40													10	

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only		
<u>[Signature]</u>		10-3-2022	07:30	<u>[Signature]</u>		10-3-22	2:30p	**Received on Ice Y/ N		
<u>[Signature]</u>		10-3-22	4:15	<u>[Signature]</u>		10/4/22	11:00	T1 _____ T2 _____ T3 _____		
								AVG Temp °C 4		

Sample Matrix: S - Soil, **Sd** - Solid, **Sg** - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area. Chain of Custody Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only

Analysis and Method

lab Only

Lab WO#

PE210009

Job Number

21080-0001

Page

2 of 4 104512

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 4181	Chloride by 300.0							Lab Number	Correct Cont/Prsrv
<del>BS22-47</del> BS22-47 4'	9-30-22	09:25	Soil	1 4oz Jar	X	X	X	X							11	
BS22-48 5'	9-30-22	13:10	Soil	1 4oz Jar	X	X	X	X							12	
BS22-49 5'	9-30-22	13:15	Soil	1 4oz Jar	X	X	X	X							13	
BS22-50 5'		13:20													14	
BS22-51 5'		13:25													15	
BS22-52 0.5'		14:00													16	
BS22-53 0.5'		14:05													17	
BS22-54 0.5'		14:10													18	
BS22-55 0.5'		14:15													19	
BS22-56 0.5'		14:20													20	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>L. Pullman</u>	10-3-2022	07:30	<u>M. Peppin</u>	10-3-22	2:30p	**Received on Ice Y/ N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<u>M. Peppin</u>	10-3-22	4:15	<u>Alena</u>	10-4-22	11:00	AVG Temp °C 4

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

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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.



## Envirotech Analytical Laboratory

Printed: 10/4/2022 11:36:23AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/04/22 11:00	Work Order ID:	E210009
Phone:	(575) 748-0176	Date Logged In:	10/04/22 09:16	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/10/22 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: UPS**Comments/Resolution**

Project ABO-Coyote 12" Steel Line has been split into multiple reports/workorders due to amount of sample. WO#'s are as follows: E210009 & E210010

**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:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E210010

Job Number: 21080-0001

Received: 10/4/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/10/22

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.  
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: 10/10/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E210010  
Date Received: 10/4/2022 11:00:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2022 11:00:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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  
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**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**  
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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)

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WS22-42 0.5-5'	16
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WS22-45 0.5-5'	19
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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/22 16:04
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-57 0.5'	E210010-01A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-58 0.5'	E210010-02A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-59 0.5'	E210010-03A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-47 0-0.5'	E210010-04A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-48 0-0.5'	E210010-05A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-32 5-8'	E210010-06A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-38 0-4'	E210010-07A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-39 0.5-4'	E210010-08A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-40 0-4'	E210010-09A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-41 0-4'	E210010-10A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-42 0.5-5'	E210010-11A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-43 0.5-5'	E210010-12A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-44 0.5-5'	E210010-13A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-45 0.5-5'	E210010-14A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-46 0-5'	E210010-15A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.





## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:04:37PM
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BS22-57 0.5'

E210010-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	118 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	509	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

BS22-58 0.5'

E210010-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	103 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	103 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	112 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	285	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:04:37PM
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BS22-59 0.5'

E210010-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	120 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	306	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-47 0-0.5'

E210010-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	122 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	307	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-48 0-0.5'

E210010-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	102 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	ND	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-32 5-8'

E210010-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	103 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	103 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	114 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	153	20.0	1	10/06/22	10/08/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-38 0-4'

E210010-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	120 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	74.4	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-39 0.5-4'

E210010-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	105 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	117 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	178	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-40 0-4'

E210010-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	40.1	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	106 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	131	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-41 0-4'

E210010-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	101 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	85.0	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-42 0.5-5'

E210010-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	104 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	306	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-43 0.5-5'

E210010-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	106 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	106 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	100 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	303	20.0	1	10/06/22	10/08/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-44 0.5-5'

E210010-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	90.9 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	76.4	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-45 0.5-5'

E210010-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	104 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	100 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	191	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:04:37PM

WS22-46 0-5'

E210010-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	106 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241070
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/05/22	10/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/05/22	10/08/22	
Surrogate: Toluene-d8	106 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241077
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	105 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241092
Chloride	161	20.0	1	10/06/22	10/08/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:04:37PM
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## Volatile Organic Compounds by EPA 8260B

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 (2241070-BLK1)

Prepared: 10/05/22 Analyzed: 10/08/22

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: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

## LCS (2241070-BS1)

Prepared: 10/05/22 Analyzed: 10/08/22

Benzene	2.16	0.0250	2.50		86.4	70-130			
Ethylbenzene	2.20	0.0250	2.50		87.8	70-130			
Toluene	2.18	0.0250	2.50		87.3	70-130			
o-Xylene	2.07	0.0250	2.50		82.7	70-130			
p,m-Xylene	4.10	0.0500	5.00		81.9	70-130			
Total Xylenes	6.16	0.0250	7.50		82.2	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

## LCS Dup (2241070-BSD1)

Prepared: 10/05/22 Analyzed: 10/08/22

Benzene	2.14	0.0250	2.50		85.6	70-130	0.930	23	
Ethylbenzene	2.17	0.0250	2.50		86.7	70-130	1.31	27	
Toluene	2.15	0.0250	2.50		85.9	70-130	1.59	24	
o-Xylene	2.06	0.0250	2.50		82.4	70-130	0.291	27	
p,m-Xylene	4.04	0.0500	5.00		80.8	70-130	1.34	27	
Total Xylenes	6.10	0.0250	7.50		81.4	70-130	0.987	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:04:37PM
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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 (2241070-BLK1)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

## LCS (2241070-BS2)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

## LCS Dup (2241070-BSD2)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.6	70-130	24.4	20	R3
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/2022 4:04:37PM
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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 (2241077-BLK1)

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			

## LCS (2241077-BS1)

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

## Matrix Spike (2241077-MS1)

Source: E210010-02

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

## Matrix Spike Dup (2241077-MSD1)

Source: E210010-02

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132	0.122	20	
Surrogate: n-Nonane	47.4		50.0		94.7	50-200			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/2022 4:04:37PM
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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 (2241092-BLK1)

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride ND 20.0

## LCS (2241092-BS1)

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride 247 20.0 250 98.9 90-110

## Matrix Spike (2241092-MS1)

Source: E210010-01

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride 752 20.0 250 509 97.6 80-120

## Matrix Spike Dup (2241092-MSD1)

Source: E210010-01

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride 735 20.0 250 509 90.8 80-120 2.29 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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/22 16:04
--	--	------------------------------------

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	S108 by 418.1-801	Chloride by 300.0							Lab Number	Correct Cont./Prsrv (s)
Job Number													
PE210010													
21080-0001													
3 of 4 14562													
Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative									
BS22-57 0.5'	9-30-22	14:25	Soil	1-4oz jar	X	X	X	X				1	
BS22-58 0.5'	9-30-22	14:30	Soil	I	X	X	X	X				2	
BS22-59 0.5'	9-30-22	14:35	Soil	I	X	X	X	X				3	
WS22-47 <del>0.5'</del> 0-0.5'	↓	13:00	↓	I	↓	↓	↓	↓				4	
WS22-48 0-0.5'	↓	13:05	↓	I	↓	↓	↓	↓				5	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only							
<u>L. Pullman</u>	10-3-2022	07:30	<u>[Signature]</u>	10-3-22	2:30	**Received on Ice Y/ N							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____							
<u>[Signature]</u>	10-3-22	6:15	<u>[Signature]</u>	10/4/22	11:00	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													
**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.													
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.         Chain of Custody         Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.													



5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fx (800) 362-1879

 envirotech-inc.com  
 laboratory@envirotech-inc.com



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d  
☐ 3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 4181-8015	Chloride by 300.0							Lab Number	N/A (s) / Correct Cont/Prsrv
Job Number													
PE210010													
21080-0001													
Containers													
QTY - Vol/TYPE/Preservative													
WS22-32 5-8'		10-9-2022	07:15	Soil	1 4oz Jar	X	X	X	X				6
WS22-38 0-4'		9-30-22	09:40	Soil	1 4oz Jar	X	X	X	X				7
WS22-39 0.5-4'		9-30-22	09:45	Soil	1 4oz Jar	X	X	X	X				8
WS22-40 0-4'			09:50										9
WS22-41 0-4'			09:53										10
WS22-42 0.5-5'			12:35										11
WS22-43 0.5-5'			12:40										12
WS22-44 0.5-5'			12:45										13
WS22-45 0.5-5'			12:50										14
WS22-46 0-5'			12:55										15
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only					
<u>[Signature]</u>		10-3-2022	07:30	<u>[Signature]</u>		10-3-22	2:30	*Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____					
<u>[Signature]</u>		10-3-22	4:15	<u>[Signature]</u>		10/4/22	11:00	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													
**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.													
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.         Chain of Custody         Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.													

## Envirotech Analytical Laboratory

Printed: 10/4/2022 11:52:53AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/04/22 11:00	Work Order ID:	E210010
Phone:	(575) 748-0176	Date Logged In:	10/04/22 09:22	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/10/22 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: UPS**Comments/Resolution**

Project ABO-Coyote 12" Steel Line has been split into multiple reports/workorders due to amount of sample. WO#'s are as follows: E210009 & E210010

**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:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E210020

Job Number: 21080-0001

Received: 10/4/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/10/22

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.  
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: 10/10/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E210020  
Date Received: 10/4/2022 6:00:00PM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2022 6:00:00PM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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  
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Office: 505-632-1881  
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Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
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**Rayny Hagan**  
Technical Representative  
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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/22 16:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-42 2'	E210020-01A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
BS22-43 2'	E210020-02A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-33 0-2'	E210020-03A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-34 0-2'	E210020-04A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-35 0-2'	E210020-05A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-36 0-2'	E210020-06A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.
WS22-37 0-2'	E210020-07A	Soil	09/30/22	10/04/22	Glass Jar, 4 oz.



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:39:44PM
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BS22-42 2'

E210020-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.3 %	70-130		10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL			Batch: 2241080
Diesel Range Organics (C10-C28)	48.3	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	67.0	50.0	1	10/06/22	10/08/22	
Surrogate: n-Nonane	129 %	50-200		10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS			Batch: 2241091
Chloride	39.1	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

BS22-43 2'

E210020-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	77.4	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	110	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	74.7	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

WS22-33 0-2'

E210020-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	36.2	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		123 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	ND	20.0	1	10/06/22	10/08/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

WS22-34 0-2'

E210020-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	28.1	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		124 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	20.1	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

WS22-35 0-2'

E210020-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	22.5	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

WS22-36 0-2'

E210020-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.9 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	73.1	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	135	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		124 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	ND	20.0	1	10/06/22	10/08/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/10/2022 4:39:44PM

WS22-37 0-2'

E210020-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Benzene	ND	0.0250	1	10/05/22	10/08/22	
Ethylbenzene	ND	0.0250	1	10/05/22	10/08/22	
Toluene	ND	0.0250	1	10/05/22	10/08/22	
o-Xylene	ND	0.0250	1	10/05/22	10/08/22	
p,m-Xylene	ND	0.0500	1	10/05/22	10/08/22	
Total Xylenes	ND	0.0250	1	10/05/22	10/08/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2241075
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/05/22	10/08/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.0 %	70-130	10/05/22	10/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241080
Diesel Range Organics (C10-C28)	43.6	25.0	1	10/06/22	10/08/22	
Oil Range Organics (C28-C36)	51.7	50.0	1	10/06/22	10/08/22	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	10/06/22	10/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2241091
Chloride	68.6	20.0	1	10/06/22	10/10/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/2022 4:39:44PM
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## 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 (2241075-BLK1)

Prepared: 10/05/22 Analyzed: 10/08/22

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	8.25		8.00		103	70-130			

## LCS (2241075-BS1)

Prepared: 10/05/22 Analyzed: 10/08/22

Benzene	4.70	0.0250	5.00		94.0	70-130			
Ethylbenzene	3.66	0.0250	5.00		73.2	70-130			
Toluene	3.94	0.0250	5.00		78.7	70-130			
o-Xylene	3.72	0.0250	5.00		74.4	70-130			
p,m-Xylene	7.44	0.0500	10.0		74.4	70-130			
Total Xylenes	11.2	0.0250	15.0		74.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			

## LCS Dup (2241075-BS1)

Prepared: 10/05/22 Analyzed: 10/08/22

Benzene	5.08	0.0250	5.00		102	70-130	7.75	20	
Ethylbenzene	3.99	0.0250	5.00		79.7	70-130	8.57	20	
Toluene	4.27	0.0250	5.00		85.4	70-130	8.13	20	
o-Xylene	4.05	0.0250	5.00		80.9	70-130	8.35	20	
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130	8.55	20	
Total Xylenes	12.1	0.0250	15.0		81.0	70-130	8.48	20	
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:39:44PM
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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 (2241075-BLK1)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.9	70-130			

## LCS (2241075-BS2)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		8.00		84.7	70-130			

## LCS Dup (2241075-BSD2)

Prepared: 10/05/22 Analyzed: 10/08/22

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.2	70-130	0.175	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/10/2022 4:39:44PM
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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 (2241080-BLK1)

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.8		50.0		126	50-200			

## LCS (2241080-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	61.4		50.0		123	50-200			

## Matrix Spike (2241080-MS1)

Source: E210019-24

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	56.9		50.0		114	50-200			

## Matrix Spike Dup (2241080-MSD1)

Source: E210019-24

Prepared: 10/06/22 Analyzed: 10/08/22

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.0	38-132	5.50	20	
Surrogate: n-Nonane	59.7		50.0		119	50-200			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/10/2022 4:39:44PM
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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 (2241091-BLK1)

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride ND 20.0

## LCS (2241091-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Chloride 262 20.0 250 105 90-110

## Matrix Spike (2241091-MS1)

Source: E210019-21

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride 295 20.0 250 31.4 106 80-120

## Matrix Spike Dup (2241091-MSD1)

Source: E210019-21

Prepared: 10/06/22 Analyzed: 10/08/22

Chloride 295 20.0 250 31.4 106 80-120 0.0206 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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/10/22 16:39

- 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.



Client: Vertex (Durango direct bill)

Project: ABO-Coyote 12" Steel Line

Sampler: L. Pullman

Phone: 575-361-9880

Email(s): MPeppin@vertex.ca, permean@vertex.ca

Project Manager: Monica Peppin

RUSH?

☐ 1d  
☐ 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO#		GRO/DRO by 8015	BTX by 8021	TPH by 418-1	Chloride by 300.0	Lab Number	Correct Cont/Prsv (s) Y/N
Job Number							
21080-0001							

Page 1 of 1 104512

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTX by 8021	TPH by 418-1	Chloride by 300.0	Lab Number	Correct Cont/Prsv (s)
BS22-42 2'	9-30-22	11:30	Soil	1 4oz jar	X	X	X	X	1	
BS22-43 2'	9-30-22	11:35	Soil	1 4oz jar	X	X	X	X	2	
WS22-33 0-2'	9-30-22	11:00	Soil	1 4oz jar	X	X	X	X	3	
WS22-34 0-2'	9-30-22	11:05	Soil	↓	↓	↓	↓	↓	4	
WS22-35 0-2'	9-30-22	11:10	Soil	↓	↓	↓	↓	↓	5	
WS22-36 0-2'	9-30-22	11:15	Soil	↓	↓	↓	↓	↓	6	
WS22-37 0-2'	9-30-22	11:20	Soil	↓	↓	↓	↓	↓	7	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	10-3-22	08:00	<i>[Signature]</i>	10-4-22	18:00	**Received on ice Y N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C 4

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

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

\*\*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.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Project owner: Amber Groves, Durango. Direct bill.


 5796 US Highway 64, Farmington, NM 87401  
 Three Springs - 65 Merriam Street, Suite 115, Durango, CO 81301

 PH (505) 622 0615 FX (505) 612 1865  
 PH (970) 759 0615 FX (800) 362 1879


## Envirotech Analytical Laboratory

Printed: 10/5/2022 11:52:41AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/04/22 18:00	Work Order ID:	E210020
Phone:	(575) 748-0176	Date Logged In:	10/04/22 17:58	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/10/22 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? No

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:

Monica Peppin



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: ABO- Coyote 12" Steel Line

Work Order: E210167

Job Number: 21080-0001

Received: 10/24/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/28/22

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.  
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: 10/28/22

Monica Peppin  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: ABO- Coyote 12" Steel Line  
Workorder: E210167  
Date Received: 10/24/2022 9:55:00AM

Monica Peppin,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2022 9:55:00AM, under the Project Name: ABO- Coyote 12" Steel Line.

The analytical test results summarized in this report with the Project Name: ABO- Coyote 12" Steel Line 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**  
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Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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Field Offices:

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**Lynn Jarboe**  
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**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)

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## Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/22 14:50
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS22-07 2'	E210167-01A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-13 2'	E210167-02A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-03 4-8'	E210167-03A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-13 0-4'	E210167-04A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-36 0-2'	E210167-05A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-42 2.5'	E210167-06A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-43 2.5'	E210167-07A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-60 0.5'	E210167-08A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-61 0.5'	E210167-09A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-62 0.5'	E210167-10A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-63 0.5'	E210167-11A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-64 0.5'	E210167-12A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-65 0.5'	E210167-13A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-66 0.5'	E210167-14A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-67 0.5'	E210167-15A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-68 0.5'	E210167-16A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-69 0.5'	E210167-17A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-70 0.5'	E210167-18A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-71 0.5'	E210167-19A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-72 0.5'	E210167-20A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-73 0.5'	E210167-21A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
BS22-74 0.5'	E210167-22A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-49 0-0.5'	E210167-23A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-50 0-0.5'	E210167-24A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-51 0-0.5'	E210167-25A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.
WS22-52 0-0.5'	E210167-26A	Soil	10/19/22	10/24/22	Glass Jar, 4 oz.



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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BS22-07 2'

E210167-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2244016	
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2244016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	79.9 %	70-130		10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2244019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
Surrogate: n-Nonane	97.8 %	50-200		10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2244020	
Chloride	ND	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-13 2'

E210167-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		77.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	ND	20.0	1	10/25/22	10/26/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-03 4-8'

E210167-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	57.4	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-13 0-4'

E210167-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.5 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	ND	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-36 0-2'

E210167-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	ND	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-42 2.5'

E210167-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	148	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-43 2.5'

E210167-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.9 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	36.7	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-60 0.5'

E210167-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		99.9 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	52.8	20.0	1	10/25/22	10/26/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-61 0.5'

E210167-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	37.3	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/28/2022 2:50:38PM
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BS22-62 0.5'

E210167-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2244016	
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2244016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.1 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2244019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>		93.9 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2244020	
Chloride	83.2	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-63 0.5'

E210167-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.7 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		98.6 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	40.9	40.0	2	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-64 0.5'

E210167-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		78.1 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	ND	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-65 0.5'

E210167-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.9 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		98.9 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	78.1	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-66 0.5'

E210167-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.3 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	103	20.0	1	10/25/22	10/26/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-67 0.5'

E210167-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2244016	
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2244016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.9 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2244019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2244020	
Chloride	76.5	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-68 0.5'

E210167-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.8 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	40.9	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-69 0.5'

E210167-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.2 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	63.6	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-70 0.5'

E210167-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.1 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	29.8	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	29.8	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-71 0.5'

E210167-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.1 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	105	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-72 0.5'

E210167-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244016
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/27/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	10/24/22	10/27/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244020
Chloride	46.5	20.0	1	10/25/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-73 0.5'

E210167-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244018
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		93.6 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244017
Chloride	25.8	20.0	1	10/24/22	10/26/22	





## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

BS22-74 0.5'

E210167-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244018
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244017
Chloride	58.1	20.0	1	10/24/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-49 0-0.5'

E210167-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244018
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244017
Chloride	111	20.0	1	10/24/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-50 0-0.5'

E210167-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2244008	
Benzene	ND	0.0250	1	10/24/22	10/26/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/26/22	
Toluene	ND	0.0250	1	10/24/22	10/26/22	
o-Xylene	ND	0.0250	1	10/24/22	10/26/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/26/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/26/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/24/22	10/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2244008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/26/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.8 %	70-130	10/24/22	10/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2244018	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		96.1 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2244017	
Chloride	380	20.0	1	10/24/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-51 0-0.5'

E210167-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2244008
Benzene	ND	0.0250	1	10/24/22	10/26/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/26/22	
Toluene	ND	0.0250	1	10/24/22	10/26/22	
o-Xylene	ND	0.0250	1	10/24/22	10/26/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/26/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/26/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/24/22	10/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2244008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/26/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.5 %	70-130	10/24/22	10/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244018
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		93.0 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244017
Chloride	88.7	20.0	1	10/24/22	10/26/22	



## Sample Data

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: ABO- Coyote 12" Steel Line  
Project Number: 21080-0001  
Project Manager: Monica Peppin

**Reported:**  
10/28/2022 2:50:38PM

WS22-52 0-0.5'

E210167-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Benzene	ND	0.0250	1	10/24/22	10/25/22	
Ethylbenzene	ND	0.0250	1	10/24/22	10/25/22	
Toluene	ND	0.0250	1	10/24/22	10/25/22	
o-Xylene	ND	0.0250	1	10/24/22	10/25/22	
p,m-Xylene	ND	0.0500	1	10/24/22	10/25/22	
Total Xylenes	ND	0.0250	1	10/24/22	10/25/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2244008
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/22	10/25/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	10/24/22	10/25/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2244018
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/22	10/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/22	10/25/22	
<i>Surrogate: n-Nonane</i>						
		97.6 %	50-200	10/24/22	10/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2244017
Chloride	ND	20.0	1	10/24/22	10/26/22	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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## Volatile Organics by EPA 8021B

Analyst: RKS

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 (2244008-BLK1)

Prepared: 10/24/22 Analyzed: 10/24/22

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	8.47		8.00		106	70-130			

## LCS (2244008-BS1)

Prepared: 10/24/22 Analyzed: 10/24/22

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.30	0.0250	5.00		106	70-130			
o-Xylene	5.31	0.0250	5.00		106	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.48		8.00		106	70-130			

## Matrix Spike (2244008-MS1)

Source: E210163-01

Prepared: 10/24/22 Analyzed: 10/24/22

Benzene	5.34	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.29	0.0250	5.00	ND	106	61-133			
Toluene	5.45	0.0250	5.00	ND	109	61-130			
o-Xylene	5.44	0.0250	5.00	ND	109	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			

## Matrix Spike Dup (2244008-MSD1)

Source: E210163-01

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	4.98	0.0250	5.00	ND	99.6	54-133	7.07	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133	5.84	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	6.49	20	
o-Xylene	5.14	0.0250	5.00	ND	103	63-131	5.77	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	5.54	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	5.61	20	
Surrogate: 4-Bromochlorobenzene-PID	8.70		8.00		109	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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## Volatile Organics by EPA 8021B

Analyst: RKS

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 (2244016-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

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	8.26		8.00		103	70-130			

## LCS (2244016-BS1)

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	5.75	0.0250	5.00		115	70-130			
Ethylbenzene	4.52	0.0250	5.00		90.4	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.61	0.0250	5.00		92.3	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.8	0.0250	15.0		91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			

## Matrix Spike (2244016-MS1)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	5.86	0.0250	5.00	ND	117	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131			
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.50		8.00		106	70-130			

## Matrix Spike Dup (2244016-MSD1)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	5.42	0.0250	5.00	ND	108	54-133	7.76	20	
Ethylbenzene	4.29	0.0250	5.00	ND	85.8	61-133	7.61	20	
Toluene	4.60	0.0250	5.00	ND	91.9	61-130	7.67	20	
o-Xylene	4.38	0.0250	5.00	ND	87.7	63-131	8.00	20	
p,m-Xylene	8.71	0.0500	10.0	ND	87.1	63-131	7.46	20	
Total Xylenes	13.1	0.0250	15.0	ND	87.3	63-131	7.64	20	
Surrogate: 4-Bromochlorobenzene-PID	8.51		8.00		106	70-130			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2244008-BLK1)

Prepared: 10/24/22 Analyzed: 10/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

## LCS (2244008-BS2)

Prepared: 10/24/22 Analyzed: 10/24/22

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

## Matrix Spike (2244008-MS2)

Source: E210163-01

Prepared: 10/24/22 Analyzed: 10/24/22

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

## Matrix Spike Dup (2244008-MSD2)

Source: E210163-01

Prepared: 10/24/22 Analyzed: 10/24/22

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130	1.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2244016-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			

## LCS (2244016-BS2)

Prepared: 10/24/22 Analyzed: 10/25/22

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.73		8.00		84.1	70-130			

## Matrix Spike (2244016-MS2)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/25/22

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## Matrix Spike Dup (2244016-MSD2)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/25/22

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.4	70-130	4.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.45		8.00		80.6	70-130			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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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 (2244018-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

## LCS (2244018-BS1)

Prepared: 10/24/22 Analyzed: 10/25/22

Diesel Range Organics (C10-C28)	254	25.0	250		101	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

## Matrix Spike (2244018-MS1)

Source: E210166-02

Prepared: 10/24/22 Analyzed: 10/25/22

Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			

## Matrix Spike Dup (2244018-MSD1)

Source: E210166-02

Prepared: 10/24/22 Analyzed: 10/25/22

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	0.896	20	
Surrogate: n-Nonane	51.4		50.0		103	50-200			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	Reported: 10/28/2022 2:50:38PM
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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 (2244019-BLK1)

Prepared: 10/24/22 Analyzed: 10/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

## LCS (2244019-BS1)

Prepared: 10/24/22 Analyzed: 10/27/22

Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

## Matrix Spike (2244019-MS1)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/27/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	43.3		50.0		86.5	50-200			

## Matrix Spike Dup (2244019-MSD1)

Source: E210167-03

Prepared: 10/24/22 Analyzed: 10/27/22

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.9	38-132	8.43	20	
Surrogate: n-Nonane	47.2		50.0		94.3	50-200			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	Reported:
3101 Boyd Drive	Project Number:	21080-0001	
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/28/2022 2:50:38PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2244017-BLK1)					Prepared: 10/24/22 Analyzed: 10/26/22				
Chloride	ND	20.0							
LCS (2244017-BS1)					Prepared: 10/24/22 Analyzed: 10/26/22				
Chloride	269	20.0	250		108	90-110			
LCS Dup (2244017-BSD1)					Prepared: 10/24/22 Analyzed: 10/26/22				
Chloride	249	20.0	250		99.4	90-110	7.96	20	



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: ABO- Coyote 12" Steel Line Project Number: 21080-0001 Project Manager: Monica Peppin	<b>Reported:</b> 10/28/2022 2:50:38PM
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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 (2244020-BLK1)

Prepared: 10/25/22 Analyzed: 10/26/22

Chloride ND 20.0

## LCS (2244020-BS1)

Prepared: 10/25/22 Analyzed: 10/26/22

Chloride 247 20.0 250 99.0 90-110

## LCS Dup (2244020-BSD1)

Prepared: 10/25/22 Analyzed: 10/26/22

Chloride 248 20.0 250 99.0 90-110 0.0659 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

Vertex Resource Services Inc.	Project Name:	ABO- Coyote 12" Steel Line	
3101 Boyd Drive	Project Number:	21080-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Monica Peppin	10/28/22 14:50

- 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.





Client: Vertex (Durango direct bill)  
 Project: ABO-Coyote 12" Steel line  
 Sampler: M. Wier  
 Phone: 575-361-9880  
 Email(s): MPeppin@Vertex.Ca  
 Project Manager: M. Peppin

RUSH?

☐ 1d  
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number											
21080-0001											

Page 1 of 3

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0												
BS22-07	2'	10-19-22	09:30	Soil	1 4oz Jar	X	X	X	X											1
BS22-13	2'	10-19-22	09:40																	2
WS22-03	4-8'		09:50																	3
WS22-13	0-4'		10:00																	4
<del>BS22</del> WS22-36	0-2'		10:10																	5
BS22-42	2.5'		11:15																	6
BS22-43	2.5'		12:15																	7
BS22-60	0.5'		10:20																	8
BS22-61	0.5'		10:30																	9
BS22-62	0.5'		10:40																	10

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
				10/21/22	3:00	**Received on Ice <input checked="" type="checkbox"/> Y / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2
	10-21-22	4:15		10/24/22	9:55	AVG Temp °C	4
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	
**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.							
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.				Chain of Custody		Notes/Billing info:	



5796 US Highway 64, Farmington, NM 87401  
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865  
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envirotech-inc.com  
 laboratory@envirotech-inc.com

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 Sampler: M. Wier  
 Phone: 575-361-9880  
 Email(s): M. Peppin@Vertex.Ca  
 Project Manager: M. Peppin

RUSH?

☐ 1d  
☐ 3d

Lab Use Only		Analysis and Method								Lab Only		
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	N/A (s) Prsrv
Job Number												
21080-0001												
Page 2 of 3												

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0									Lab Number	Correct Cont/Prsrv
BS22-63	0.5'	10-19-22	10:50	Soil	1 4oz Jar	X	X	X	X								11	
BS22-64	0.5'		11:00														12	
BS22-65	0.5'		11:20														13	
BS22-66	0.5'		11:30														14	
BS22-67	0.5'		11:40														15	
BS22-68	0.5'		11:50														16	
BS22-69	0.5'		12:00														17	
BS22-70	0.5'		12:10														18	
BS22-71	0.5'		12:20														19	
BS22-72	0.5'		12:30														20	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
				10/24/22	3:00	**Received on Ice <input checked="" type="checkbox"/> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2
	10/24/22	4:11		10/24/22	9:55	AVG Temp °C	4
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	
**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.							
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.				Chain of Custody		Notes/Billing info:	



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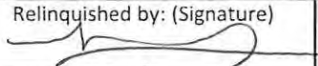
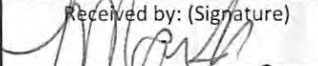
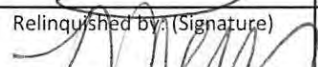
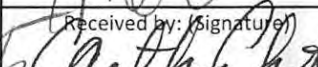
Client: Vertex (Durango direct bill)  
 Project: Abd - Coyote 12" Steel line  
 Sampler: M. Wier  
 Phone: 575-361-9880  
 Email(s): M. Peppin@Vertex.ca  
 Project Manager: M. Peppin

RUSH?

☐ 1d☐ 3d

Lab Use Only		Analysis and Method								lab Only		
Lab WO# <b>PE210167</b>		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	N/Y (s) Correct Cont/Prsrv
Job Number <b>21080-0001</b>												
Page <b>3</b> of <b>3</b>												

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0											
B522-73	0.5'	10-19-22	12:40	Soil	1 4oz Jar	X	X	X	X									21	
B522-74	0.5'		12:50															22	
WS22-49	0-0.5'		13:00															23	
WS22-50	0-0.5'		13:10															24	
WS22-51	0-0.5'		13:20															25	
WS22-52	0-0.5'		13:30															26	

Relinquished by: (Signature) 	Date 10/21/22	Time 3:00	Received by: (Signature) 	Date 10/21/22	Time 3:00	Lab Use Only	
Relinquished by: (Signature) 	Date 10/21/22	Time 4:15	Received by: (Signature) 	Date 10/24/22	Time 9:55	**Received on Ice <input checked="" type="checkbox"/> N T1 _____ T2 _____ 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	
**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.							
<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.			Chain of Custody		Notes/Billing info:		



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## Envirotech Analytical Laboratory

Printed: 10/25/2022 10:20:49AM

## 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:	Vertex Resource Services Inc.	Date Received:	10/24/22 09:55	Work Order ID:	E210167
Phone:	(575) 748-0176	Date Logged In:	10/24/22 10:38	Logged In By:	Alexa Michaels
Email:	mpeppin@vertex.ca	Due Date:	10/28/22 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? 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.

**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 156971

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 156971
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2222822822 ABO PLANT TO COYOTE 12" STEEL LINE RECEIVER, thank you. This closure is approved.	1/25/2023