

Incident ID	nAPP2214535072
District RP	
Facility ID	
Application ID	

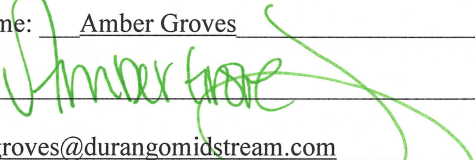
Closure

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: Sr. Environmental Specialist
Signature:  Date: 3/15/2023
email: agroves@durangomidstream.com Telephone: 575-703-7992

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

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: 7/26/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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Site Assessment/Characterization

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

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

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

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

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

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

Oil Conservation Division

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Printed Name: Amber Groves Title: Sr. Environmental Specialist

Signature:  Date: 3/15/2023

email: agroves@durangomidstream.com Telephone: (575)703-7992

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Remediation Plan

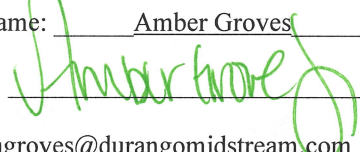
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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Printed Name: Amber Groves Title: Sr. Environmental Specialist
Signature:  Date: 3/15/2023
email: agroves@durangomidstream.com Telephone: (575)703-7992

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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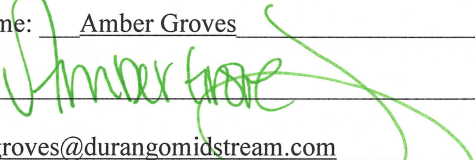
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Printed Name: Amber Groves Title: Sr. Environmental Specialist
Signature:  Date: 3/15/2023
email: agroves@durangomidstream.com Telephone: 575-703-7992

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Durango Midstream, LLC
Hnulik 6 Lateral #2
32.80203°, -104.33728°
NMOCD Reference # nAPP2214535072
Terracon Project # AR227116



Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: **Amended Release Investigation and Closure Plan**
Hnulik 6 Lateral #2
Unit M, Section 25, Township 17 South, Range 26 East
32.80203°, -104.33728°
Eddy County, New Mexico
Terracon Project No. AR227116

To Whom it May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our amended Release Investigation and Closure Plan for the site referenced above. The Release Investigation and RAP were developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. The investigative response actions were taken as the result of a natural gas release from a corroded 6-inch lateral line. Based on the release investigation assessment, Terracon recommends that no further actions be taken at the site based on site conditions and in accordance with NMOCD regulations.

Action Items

Requested Changes


-
- 1) On February 10, 2023 the NMOCD requested maps depicting the location of background samples and that all samples be collected as grab samples. Terracon has provided an amended report with maps depicting the location of background samples and the amended data table showing all background samples were collected as grab samples.
-

Durango Midstream, LLC
Hnulik 6 Lateral #2
32.80203°, -104.33728°
NMOCD Reference # nAPP2214535072




Terracon appreciates this opportunity to provide environmental services to Durango Midstream LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.



Joseph Guesnier
Senior Staff Scientist
Office Manager - Carlsbad



Erin Loyd, P.G. (TX)
Principal
Office Manager - Lubbock

Frontier Field Services, LLC
Hnulik 6 Lateral #2
32.80203°, -104.33728°
NMOCD Reference # nAPP2214535072
Terracon Project # AR227116



Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: **Release Investigation and Closure Plan**
Hnulik 6 Lateral #2
Unit M, Section 25, Township 17 South, Range 26 East
32.80203°, -104.33728°
Eddy County, New Mexico
Terracon Project No. AR227116

To Whom it May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Plan for the site referenced above. The Release Investigation and RAP were developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. The investigative response actions resulted from a natural gas release from a corroded 6-inch lateral line. Based on the release investigation assessment, Terracon recommends that no further actions be taken at the site based on site conditions and in accordance with NMOCD regulations.

Action Items

Completed Actions

- 1) The line failure has been repaired and the release has ceased.
- 2) During the repair of the line, it was observed that residual river water leached into the excavation, and at that point, a C-141 was filed with NMOCD on 5/24/2022.
- 3) Terracon conducted soil removal activities in the area where the release occurred. In total 260 cubic yards of soil were excavated during remedial activities. Excavated material was stockpiled on-site atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavated materials were disposed of at Lea Land Landfill.
- 4) Terracon conducted a background evaluation of soils greater than 50 feet outside of the release margins to establish chloride background levels at a site directly west of the site. Chloride concentrations appear to be naturally elevated in this area due to the natural accumulation of soil salinity resulting from the wetting and dry of chlorides within the Pecos River and from the rising and falling of the alluvial perched water. Based on the evaluation of the detected chloride concentrations evaluated utilizing the EPAs ProUCL calculator to determine 95% Upper Confidence Limit (UCL), the background chloride concentration for the area

Frontier Field Services, LLC
Hnulik 6 Lateral #2
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NMOCD Reference # nAPP2214535072



is calculated to be 22,389 milligrams per kilogram (mg/kg) as displayed in Table 2 of Appendix B.

Variance Requested

- 1) Terracon is requesting on the behalf of Frontier Field Services (Frontier no further action status for this site based on background chloride concentrations in shallow soils in the area. The water observed within the excavation was determined to be residual river water that leached into the excavation and withdrew during the duration of remedial activities.

Terracon appreciates this opportunity to provide environmental services to Durango Midstream LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in blue ink, appearing to read 'J. Guesnier'.

Joseph Guesnier
Senior Staff Scientist
Office Manager - Carlsbad

A handwritten signature in blue ink, appearing to read 'Erin Loyd'.

Erin Loyd, P.G. (TX)
Principal
Office Manager – Lubbock

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Attachments:**Appendix A – Exhibits**

- Exhibit 1 – Topo Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – Chloride Confirmation Soil Sampling Map
- Exhibit 4 – NMOSE POD Location Map
- Exhibit 5 – Designated Wetland Area Map
- Exhibit 6 – Cave Karst Public UCP Map

Appendix B – Tables, Procedures, and Figures

- Table 1 – Soil Sample Analytical Results
- Table 2 – Background Soil Sample Analytical Results

Appendix C – Photographic Log**Appendix D – Analytical Report and Chain of Custody****Appendix E – Initial Form C-141****Appendix F – Terracon Standard of Care, Limitation, and Reliance**

Durango Midstream, LLC
Hnulik 6 Lateral #2
32.80203°, -104.33728°
NMOCD Reference # nAPP2214535072



Incident Information

The following table provides detailed information regarding the May 9, 2022 natural gas release at the Hnulik 6 Leak #2 site in Eddy County, New Mexico:

Required Information	Site and Release information	
Responsible party	The facility is operated by Durango Midstream LLC	
Local contact	Contact: Ms. Amber Groves	P: (575)-703-7992 E: agroves@durangomidstream.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Ms. Amber Groves on April 13, 2022. NMOCD Reference # nAPP2214535072	
Facility description	Hnulik 6 Lateral #2 is in Eddy County, New Mexico. It is an area located within Unit M, Section 25, Township 17 South, Range 30 East, approximately 3.6 miles southeast of Artesia, New Mexico. The site is predominantly undeveloped native privately owned pastureland.	
Time of incident	May 9, 2022, discovered at approximately 2:30 p.m.	
Discharge event	The natural gas pipeline leak was caused by corrosion of the steel line and was discovered leaking to the surface during normal field inspections. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	The documented natural gas release occurred in open privately owned native pastureland site and is affected at the surface to depth.	
Quantity of spilled material	Total Fluids: 0 bbls	Natural Gas: 21.34 Mcf
Site characteristics	Relatively flat with drainage following the native ground surface; very gently sloping to the southeast.	
Immediate corrective actions	The leaking pipeline was closed in at the nearest isolation valve and blown down. A backhoe was utilized to excavate soils to discover the source of the release.	

Durango Midstream, LLC
Hnulik 6 Lateral #2
32.80203°, -104.33728°
NMOCD Reference # nAPP2214535072



General Site Characteristics	
Remedial Determining Information	Site Ranking Characteristics
Groundwater NMOSE POD Location Map – (Exhibit 4 in Appendix A)	<u>POD Number:</u> (RA-11547-POD2) <u>Depth to Groundwater:</u> 25 ft. bgs <u>Distance to Well:</u> 0.59 miles to the northwest <u>Date Drilled:</u> April 3, 2010
	<u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for livestock production.
Surface Water NM Wetland Map – (Exhibit 5 in Appendix A)	Pecos River, approximately 0.82 miles to the east.
100-Year Flood Plain	This site is located within the 100-year flood plain of the Pecos River.
Soil Characteristics	Soils at the site are mapped as Arno-Harkey series soils, 0 to 1 percent slopes, well-drained, 0 to 9 inches silty clay loam, 9 to 60 inches silty clay (Arno setting) and 0 to 9 inches very fine sandy loam, 9 to 60 inches very fine sandy loam (Harkey setting). Restrictive features are assumed present at more than 80 inches bgs resulting in the formation being categorized with a very high runoff classification.
Karst Characterization Cave Karst Public UCP Map – (Exhibit 6 in Appendix A)	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a moderate-level Karst risk area. Based on on-site observations within the extent of the release margins the potential for Karst formations in this specific area are of moderate potential. Restrictive features were not encountered from surface to 84 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 84 inches bgs.

Durango Midstream, LLC
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NMOCD Reference # nAPP2214535072



Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018*, and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Hnulik 6 Lateral #2 site.

Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Remediation Levels (> 4 ft. bgs)

Based on the site-specific characteristics, the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Frontier Field Services, LLC
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NMOCD Reference # nAPP2214535072



Background Chloride Remediation Levels

Terracon conducted a background evaluation of soils greater than 50 feet outside of the release margins west of the release to establish chloride background levels at an adjacent site (NMOCD Reference # nAPP2214534062). Chloride concentrations appear to be naturally elevated in this area due to the natural accumulation of soil salinity resulting from the wetting and drying of chlorides within the Pecos River and from the rising and falling of the alluvial perched water. Based on the evaluation of the detected chloride concentrations evaluated utilizing the EPAs ProUCL calculator to determine a 95% Upper Confidence Limit (UCL), the background chloride concentration for the area is calculated to be 22,389 milligrams per kilogram (mg/kg) as displayed in Table 2 of Appendix B.

Constituent	Remediation Limit
Chloride	22,389 mg/kg

Soil Investigation Discussion

Remedial Activities

On May 16, 2022, Terracon mobilized to the site to meet Gandy Corporation (Gandy) personnel, who were to perform soil remediation activities. Areas exhibiting visual impact were excavated to a depth of approximately 6 feet bgs. A total of 2 composite soil samples (NW-1, and SW-1) were collected from the excavation, placed in the laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX), total petroleum hydrocarbons (TPH), and chlorides. Field observations indicated soils in the bottom of the excavation area were likely impacted above the applicable NMOCD criteria. Terracon contacted Durango to schedule additional excavation.

On July 12, 2022, Terracon mobilized to the site to collect composite samples of the excavation and to remove additional impacted soil from the sidewalls and bottom or floor area of the excavation. A total of 8 composite soil samples (WF, EF, NW-1, NW-2, SW-1, SW-2, EW, and WW) were collected from the floor and sidewalls of the excavation, placed in the laboratory provided sample containers, preserved with ice, and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides.

In total, 260 cubic yards of soil were excavated during remedial activities. Excavated material was stockpiled on-site atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavated materials were disposed of at Lea Land Landfill.

See Exhibit 1 for a depiction of the excavation extent and composite sample locations. Appendix C contains the photographic log of the site and demonstrates the leaching of the residual river water.

Frontier Field Services, LLC
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Analytical Results

Soil samples SW-1 (5-7 feet), SW-2, NW-1 (3 feet), NW-1 (5-7 feet), NW-2, EW, WW, and EF collected on May 16 and July 12, 2022, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory sample detection limits (SDLs). Samples SW-1 (3 feet) and WF (10-11 feet) exhibited levels of Benzene (WF) or total xylenes (SW-1 and WF) above laboratory SDLs but below NMOCD Action Levels.

All of the soil samples collected from the excavation area exhibited concentrations of chloride above laboratory sample detection limits and ranging from 304 mg/kg in SW-1 (5-7 feet) to 6,000 in NW-1 (3 feet). Chloride concentrations generally decrease with sample depth as exhibited in samples SW-1 and NW-1. Sample SW-1 contained a chloride concentration of 5,360 mg/kg at 3 feet and 304 mg/kg at the 5-7-foot interval while sample NW-1 exhibited concentrations of 6,000 mg/kg at 3 feet and 3040 mg/kg at a depth of 5 to 7 feet in depth.

On July 25, 2022, Terracon collected background soil samples from the upgradient and adjacent Hnulik #1 site to establish background chloride concentrations in shallow soils in the area. A total of nine soil samples were collected and the results of this sampling event indicate that background chloride concentrations in surface soils are found to exist at levels ranging from 31,600 mg/kg to 3,200 mg/kg. As such, the chloride concentrations found in the Hnulik #2 excavation area appear to be indicative of background levels in the area and as such, further excavation activities were discontinued at the direction of Durango Midstream. The Hnulik #1 site is located approximately 1,000 feet west of this site along the same pipeline. The soils in the general area are all affected by the wetting and drying of the Pecos River and the resulting background concentrations appear justifiable for the area.


A summary of BTEX, chloride and TPH concentrations of all collected soil samples is attached as Table 1. Background chloride data referenced for the Hnulik #1 (Terracon Project #AR227115) site can be found in the Release Investigation and Remedial Action Plan submitted to NMOCD on October 27, 2022.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon recommends no further action be taken regarding the release that occurred on April 13, 2022, at the Hnulik 6 Lateral #2 site location. The C-141 was submitted for this project in anticipation of water infilling the excavation, however, the water that was encountered at the bottom of the excavation withdrew during the duration of the remediation. Frontier Field Services respectfully request the closure of nAPP2214535072.

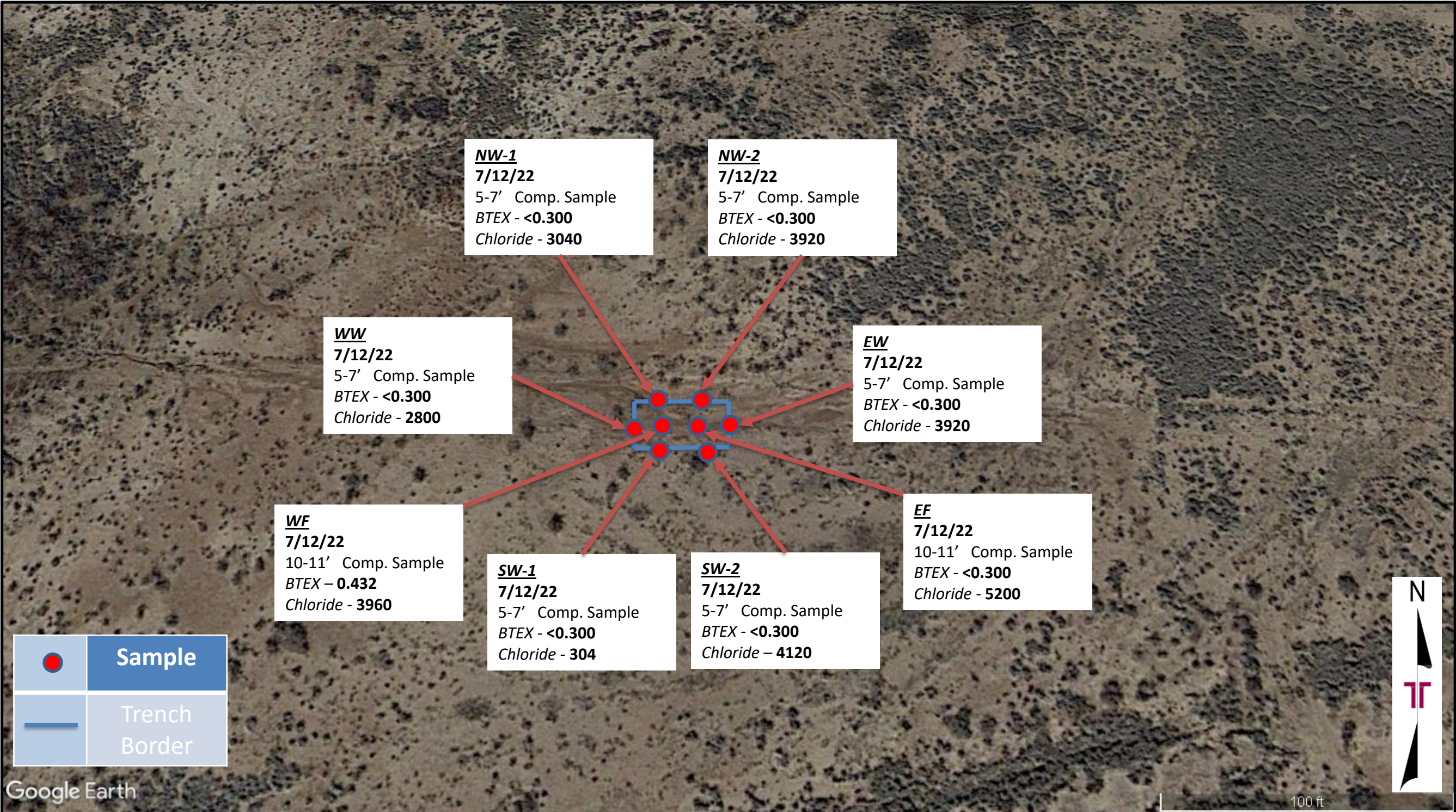
APPENDIX A – EXHIBITS




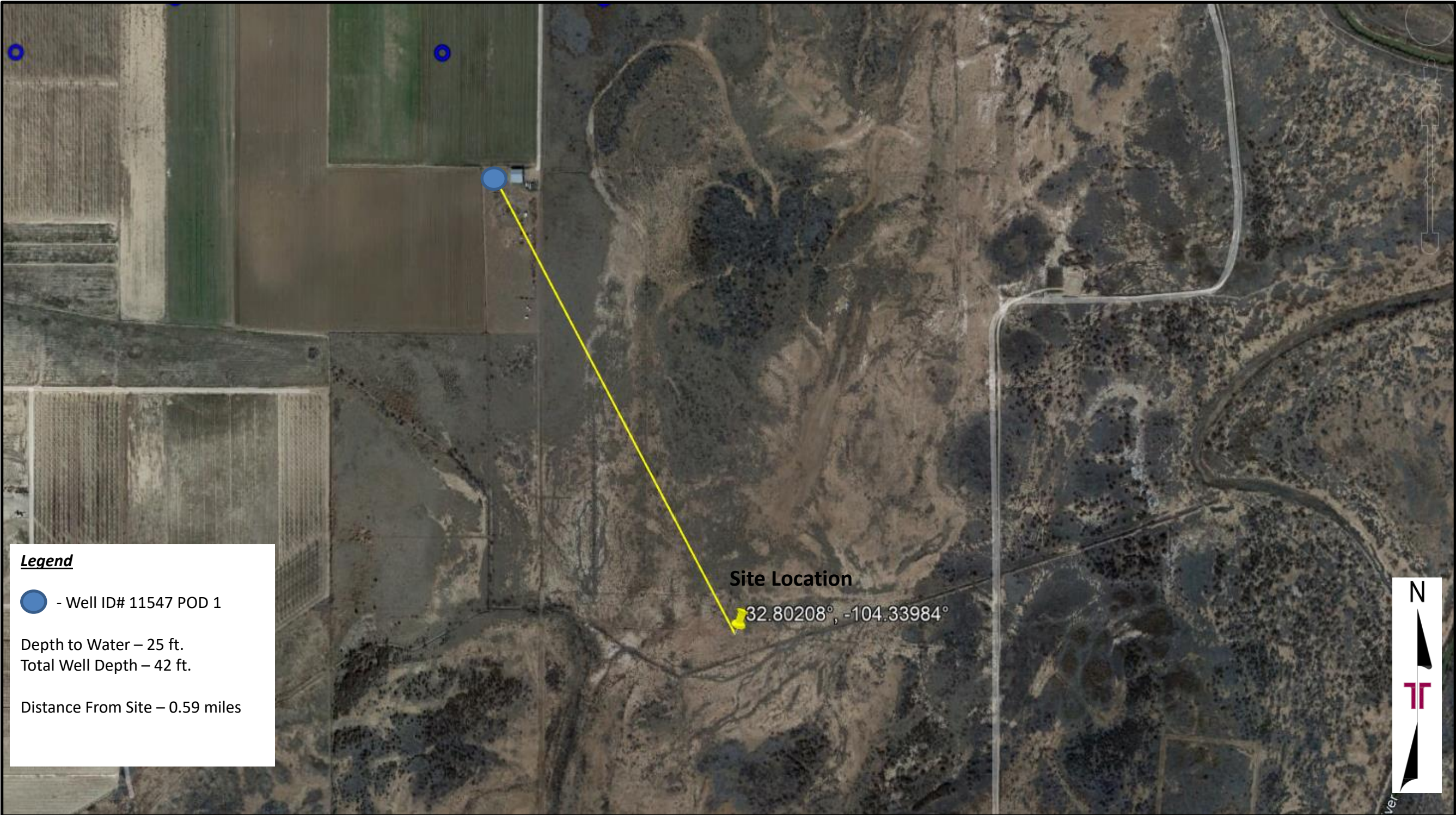
Project No.	AR227116	 <div>5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947</div>	Topographic Map	Exhibit
Scale:	As Shown		Hnulik 6- Lateral #2	1
Source:	Google Earth		32.80208°, -104.33984°	
Date:	2022		Eddy County, New Mexico	



Project No.	AR227116	<div><div>Terracon</div><div>Consulting Engineers & Scientists</div><div><div>5847 50th St.</div><div>PH. (806) 300-0104</div><div>Lubbock, Texas 79424</div><div>FAX. (806) 797 0947</div></div></div>	Site Location Map	Exhibit
Scale:	As Shown		Hnulik 6- Lateral #2	2
Source:	Google Earth		32.80208°, -104.33984°	
Date:	2022		Eddy County, New Mexico	



Project No.	AR227116	 <div>5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947</div>	Chloride Confirmation Soil Sampling Map	Exhibit
Scale:	As Shown		Hnulik 6- Lateral #2	3
Source:	Google Earth		32.80208°, -104.33984°	
Date:	2022		Eddy County, New Mexico	




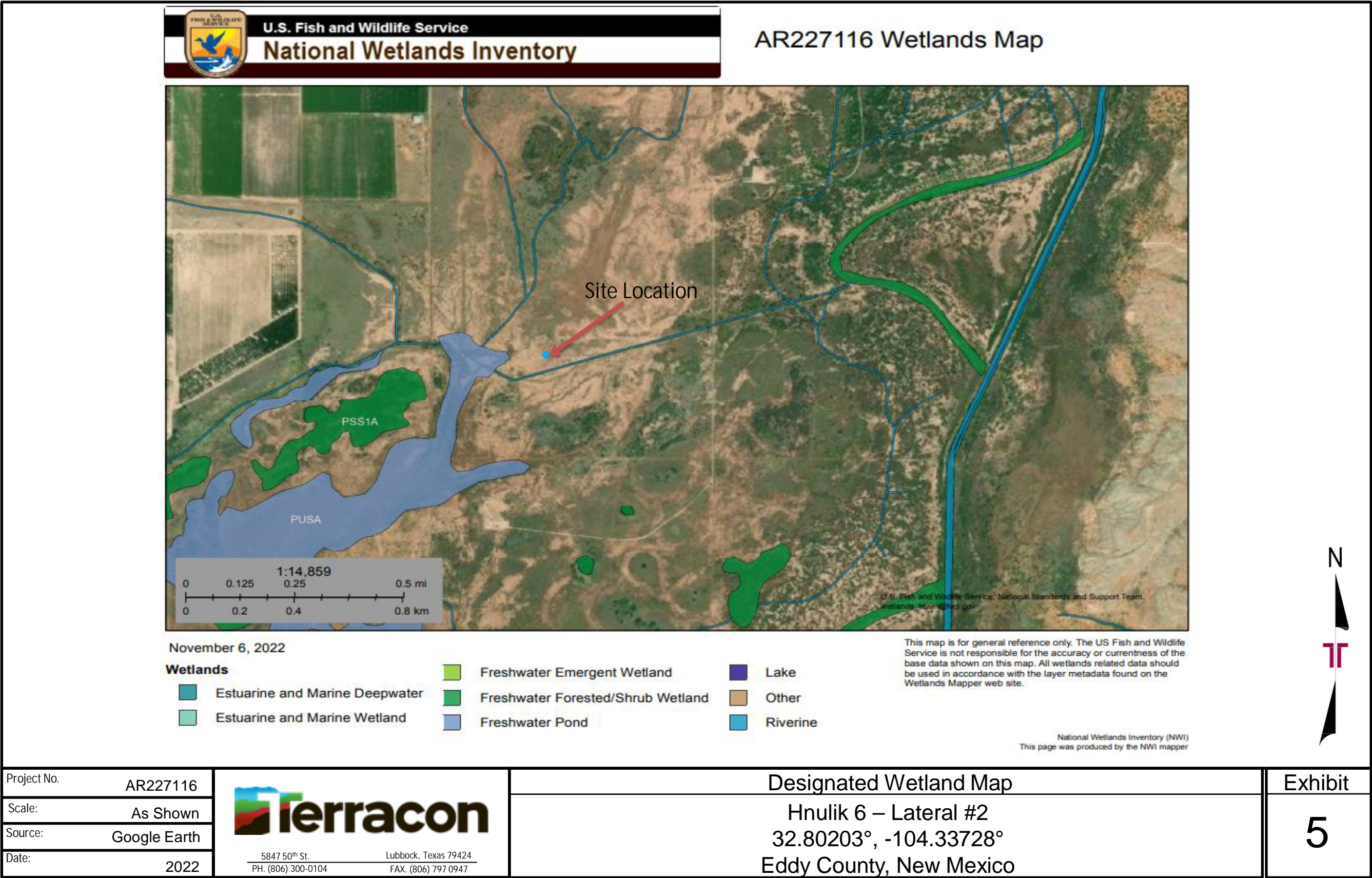
Legend

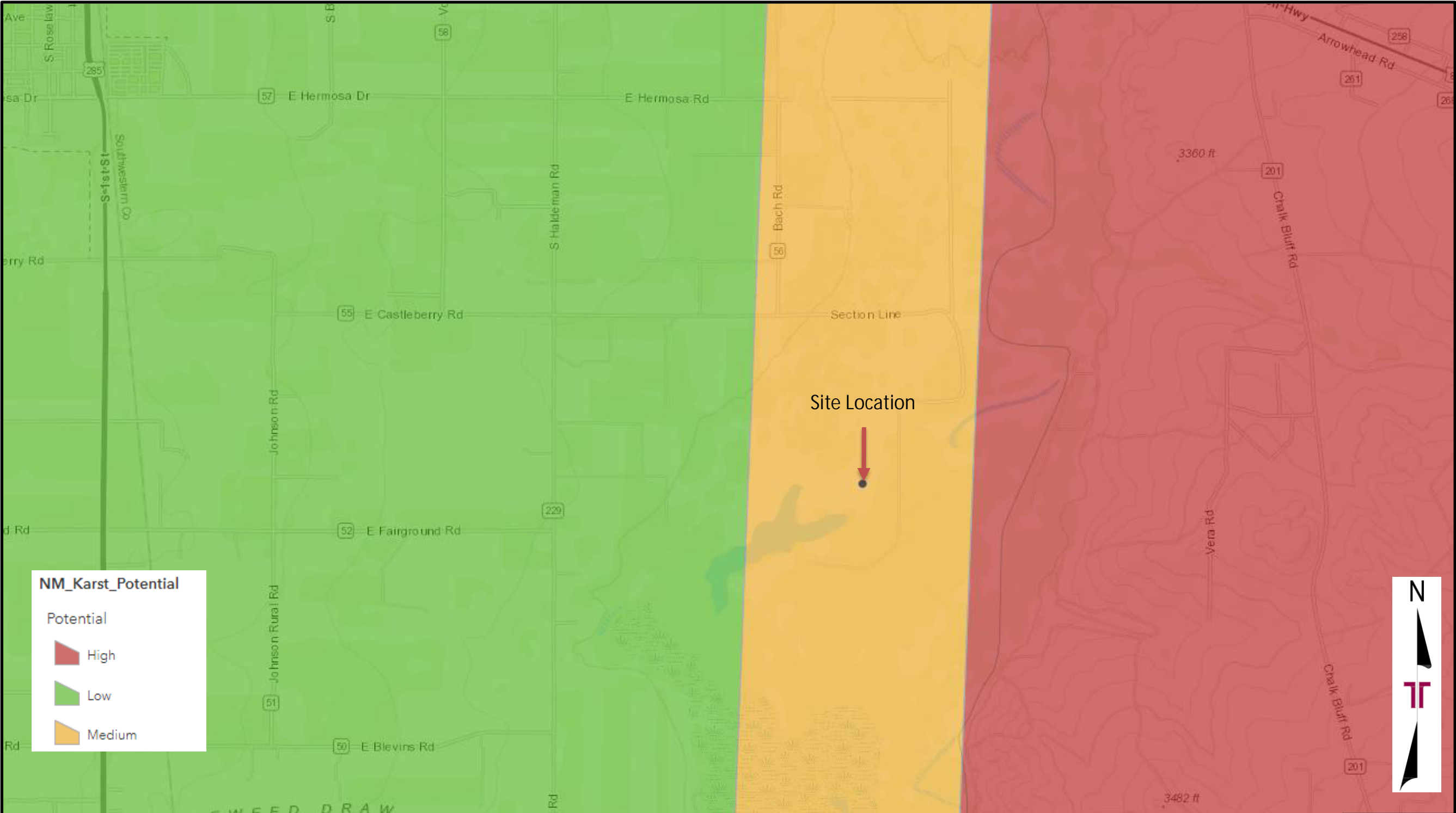
● - Well ID# 11547 POD 1


Depth to Water – 25 ft.
Total Well Depth – 42 ft.

Distance From Site – 0.59 miles

Project No.	AR227116	 <div>5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947</div>	NMOSE POD Location Map		Exhibit
Scale:	As Shown		Hnulik 6- Lateral #2		4
Source:	Google Earth		32.80208°, -104.33984°		
Date:	2022		Eddy County, New Mexico		





Project No.	AR227116	 <div>5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947</div>	Cave Karst Public UCP Map	Exhibit
Scale:	As Shown		Hnulik 6- Lateral #2	6
Source:	Google Earth		32.80203°, -104.33728°	
Date:	2022		Eddy County, New Mexico	

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

TABLE 1								
SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³								
Hnulik 6 - Lateral #2								
Terracon Project No. AR227116								
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	MRO
Initial Release Margin Samples (Off Pad)								
SW-1	3'	Comp	05/16/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - 0.184 Total BTEX - <0.300	5360	<10.0	<10.0	<10.0
SW-1	5-7'	Comp	07/12/22	<SDLs	304	<10.0	<10.0	<10.0
SW-2	5-7'	Comp	07/12/22	<SDLs	4120	<10.0	<10.0	<10.0
NW-1	3'	Comp	05/16/22	<SDLs	6000	<10.0	<10.0	<10.0
NW-1	5-7'	Comp	07/12/22	<SDLs	3040	<10.0	<10.0	<10.0
NW-2	5-7'	Comp	07/12/22	<SDLs	3920	<10.0	<10.0	<10.0
EW	5-7'	Comp	07/12/22	<SDLs	3920	<10.0	<10.0	<10.0
WW	5-7'	Comp	07/12/22	<SDLs	2800	<10.0	<10.0	<10.0
EF	10-11'	Comp	07/12/22	<SDLs	5200	<10.0	<10.0	<10.0
WF	10-11'	Comp	07/12/22	Benzene - 0.131 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - 0.301 Total BTEX - 0.432	3960	<10.0	<10.0	<10.0
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A		
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 Background SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Hnulik 6" Lateral #2 Terracon Project No. AR227116								
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	EXT DRO
Background Samples								
BG-1	0.5'-1'	Grab	07/25/22	<SDLs	32,000	<10.0	<10.0	<10.0
BG-1	2-3'	Grab	05/16/22	N/A	2,240	N/A	N/A	N/A
BG-2	0.5'-1'	Grab	07/25/22	<SDLs	14,400	<10.0	<10.0	<10.0
BG-3	0.5'-1'	Grab	07/25/22	<SDLs	23,200	<10.0	<10.0	<10.0
BG-4	0.5'-1'	Grab	07/25/22	<SDLs	25,600	<10.0	<10.0	<10.0
BG-5	0.5'-1'	Grab	07/25/22	<SDLs	3,200	<10.0	<10.0	<10.0
BG-6	0.5'-1'	Grab	07/25/22	<SDLs	10,300	<10.0	<10.0	<10.0
BG-7	0.5'-1'	Grab	07/25/22	<SDLs	4,160	<10.0	<10.0	<10.0
BG-8	0.5'-1'	Grab	07/25/22	<SDLs	10,100	<10.0	<10.0	<10.0
BG-9	0.5'-1'	Grab	07/25/22	<SDLs	31,600	<10.0	<10.0	<10.0
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards

APPENDIX C – PHOTOGRAPHIC LOG

Hnulik 6 – Lateral #2 ■ Eddy County, New Mexico
November 9, 2022 ■ Terracon Project No. AR227116

Terracon



PHOTO 1: View of area prior to remediation from the West.



PHOTO 2: View of area following Excavation from the East.

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 01, 2022

BRETT DENNIS

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: HNULIK #2

Enclosed are the results of analyses for samples received by the laboratory on 05/26/22 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 BRETT DENNIS
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/26/2022
 Reported: 06/01/2022
 Project Name: HNULIK #2
 Project Number: AR227116
 Project Location: DURANGO MIDSTREAM

Sampling Date: 05/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 1 (H222241-01)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12	
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08	
Total BTEx	<0.300	0.300	05/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/31/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
BRETT DENNIS
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 05/26/2022
Reported: 06/01/2022
Project Name: HNULIK #2
Project Number: AR227116
Project Location: DURANGO MIDSTREAM

Sampling Date: 05/24/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H222241-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12	
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39	
Total Xylenes*	0.184	0.150	05/28/2022	ND	6.00	100	6.00	3.08	
Total BTEX	<0.300	0.300	05/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	05/31/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL DIRECTLY TO DURANGO

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 15, 2022

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: HNULIK #2

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: WF (10'-11') (H223003-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.131	0.050	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	0.301	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTX	0.432	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	07/14/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 78.4 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: EF (10'-11') (H223003-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEx	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 43-149

Surrogate: 1-Chlorooctadecane 89.3 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: NW - 1 (5'-7') (H223003-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.91	95.3	2.00	10.2		
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 43-149

Surrogate: 1-Chlorooctadecane 92.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: NW - 2 (5'-7') (H223003-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.00	100	2.00	14.1		
Toluene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	14.8		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	106	2.00	14.5		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.52	109	6.00	14.0		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 43-149

Surrogate: 1-Chlorooctadecane 88.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: SW - 1 (5'-7') (H223003-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.00	100	2.00	14.1		
Toluene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	14.8		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	106	2.00	14.5		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.52	109	6.00	14.0		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 43-149

Surrogate: 1-Chlorooctadecane 94.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: SW - 2 (5'-7') (H223003-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.00	100	2.00	14.1	
Toluene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	14.8	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	106	2.00	14.5	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.52	109	6.00	14.0	
Total BTX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 43-149

Surrogate: 1-Chlorooctadecane 91.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: EW (5'-7') (H223003-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.00	100	2.00	14.1	
Toluene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	14.8	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	106	2.00	14.5	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.52	109	6.00	14.0	
Total BTX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 43-149

Surrogate: 1-Chlorooctadecane 93.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	07/13/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	HNULIK #2	Sampling Condition:	Cool & Intact
Project Number:	AR227116 (6-LATERAL)	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM		

Sample ID: WW (5'-7') (H223003-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.00	100	2.00	14.1		
Toluene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	14.8		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	106	2.00	14.5		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.52	109	6.00	14.0		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 43-149

Surrogate: 1-Chlorooctadecane 92.2 % 42.5-161

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Terracon

Office Location

Lubbock

Laboratory: **Cardinal Lab.**
Address: **101 E Marland
Hobbs, NM 88240**

Phone:

Contact:

SRS #:

Project Manager: **Joe Guesnier**
Sampler's Name: **Austin Worley**

Sampler's Signature: *Austin Worley*

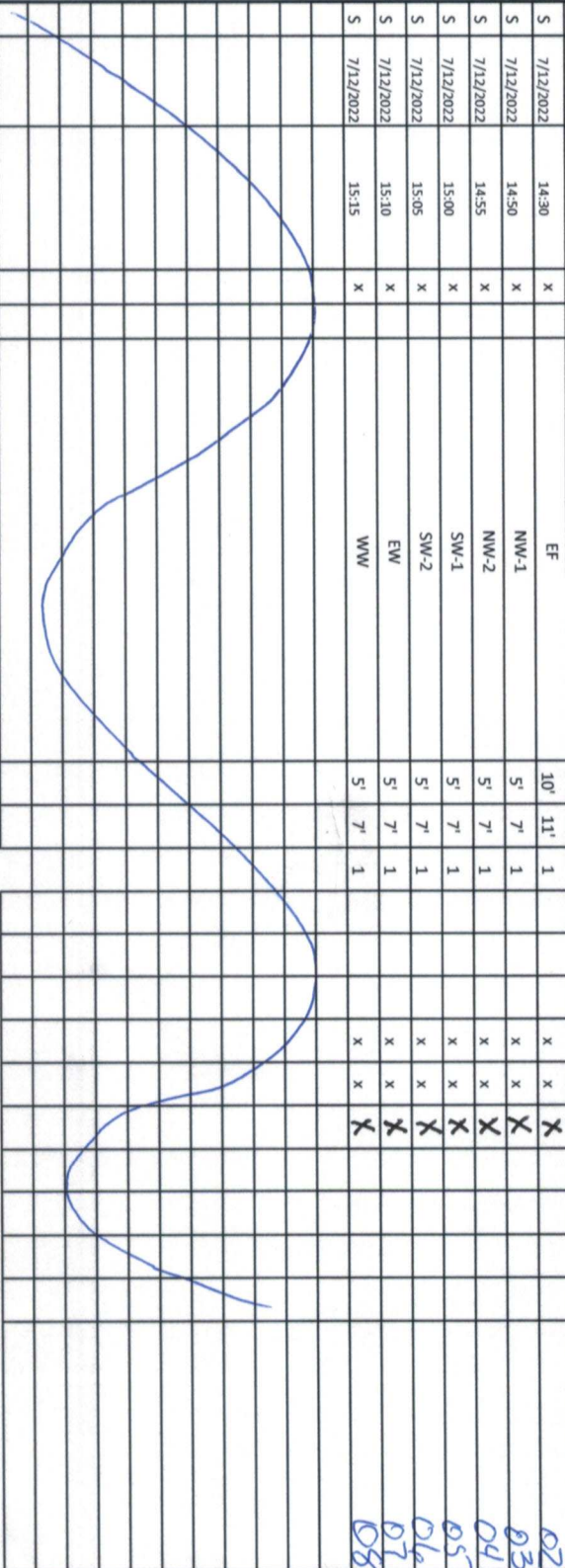
Project Number: **AR227116**

Project Name: **Hnulik G-Lateral #2**

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	ANALYSIS REQUESTED	LAB USE ONLY
S	7/12/2022	13:35	X		WF	10'	11'	1	BTEX (EPA Method 8021B)	DUE DATE:
S	7/12/2022	14:30	X		EF	10'	11'	1	TPH Extended 8015	TEMP OF COOLER WHEN RECEIVED (°C)
S	7/12/2022	14:50	X		NW-1	5'	7'	1	chloride (EPA method 4500)	8.3°C - 0.68
S	7/12/2022	14:55	X		NW-2	5'	7'	1		1.6°C #113
S	7/12/2022	15:00	X		SW-1	5'	7'	1		7°
S	7/12/2022	15:05	X		SW-2	5'	7'	1		
S	7/12/2022	15:10	X		EW	5'	7'	1		
S	7/12/2022	15:15	X		WW	5'	7'	1		

Lab Sample ID: **H223003-01**



TURNAROUND TIME

Normal

48-Hour Rush

24-Hour Rush

TRRP Laboratory Review Checklist

Yes No

Relinquished by (Signature): *Austin Worley*

Date: **7/13/22** Time: **10:25**

Received by (Signature): *Joseph Guesnier*

Date: **7/13/22** Time: **10:30**

Relinquished by (Signature):

Date:

Received by (Signature):

Date:

Relinquished by (Signature):

Date:

Received by (Signature):

Date:

Relinquished by (Signature):

Date:

Received by (Signature):

Date:

e-mail results to:
joseph.guesnier@terracon.com
erin.loyd@terracon.com
austin.worley@terracon.com

Matrix: **WW - Wastewater** **W - Water** **S - Soil** **L - Liquid** **A - Air Bag** **C - Chemical Spill** **N - Other**
Container: **VOCs - 40 ml vial** **A/C - Amber Glass 1L** **250 ml - Glass wide mouth** **P/O - Plastic or other**

Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

APPENDIX E – INITIAL FORM C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2214535072
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 agroves@durangomidstream.com	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

Location of Release Source

Latitude 32.80203 Longitude -104.33728
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hnulik #2	Site Type Pipeline
Date Release Discovered 4/13/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	25	17S	26E	Eddy

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

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 21.34	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

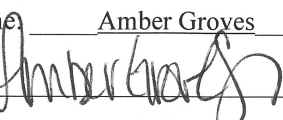
Non-reportable release caused by internal corrosion. Upon due diligence activities including excavation, residual river water leached into the excavation. This location is approximately ½ mile from the Pecos River.

Incident ID	nAPP2214535072
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Amber Groves</u>	Title: <u>Remediation Specialist</u>
Signature: 	Date: <u>5/24/2022</u>
email: <u>agroves@durangomidstream.com</u>	Telephone: <u>(575)703-7992</u>
<u>OCD Only</u>	
Received by: _____	Date: _____



Gas Volume Release Report

Gas Release Volume Calculator		
Date:	5/9/2022	
Site or Line Name:		
Area of hole in pipe:	0.25	square inches
Absolute Pressure:	100	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Temperature:	80	Degrees F
Absolute Pressure:	14.7	psia (Gauge Pressure + 14.7)
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - SCF	32.31	MSCF

Notes
Entered by user
Calculated Value
Constant

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Durango Midstream LLC, as reflected in our proposal (PAR227116).

Additional Scope Limitations

The development of this Amended RAP is based on information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Durango Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Durango Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Durango Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Durango Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Durango Midstream LLC and all relying parties unless otherwise agreed in writing.

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
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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 197700

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 197700
	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 #NAPP2214535072 HNULIK #2, thank you. This closure is approved. On future reports, please refer to the Spill Rule Clarification Document (September 6, 2019). A grab, not composite, sample(s) should be gathered in areas undisturbed by oil and gas activities, nominally uphill from the release area, and no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release's impact. The background sampling should be representative of the entire horizontal and vertical extent of the release. Other means may be acceptable to OCD, but only after review and a written determination. Please make sure all background locations are clearly marked on Site Map on future reports or the report will be immediately denied.	7/26/2023