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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: <u>Senior Environmental Specialist</u>
Signature:	Date: <u>12/21/2022</u>
email: <u>agroves@durangomidstream.com</u> Telep	hone: <u>575-703-7992</u>

OCD	Only
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Received by: Jocelyn Harimon

Date: 01/17/2023

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 Approve	ed by: <u>Robert Hamlet</u>	Date:	5/15/2023
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?	150 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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age 4	Oil Conservation Division		-		nAPP2222/49455
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				Application ID	
public health or the failed to adequately	rators are required to report and/or file certa e environment. The acceptance of a C-141 r y investigate and remediate contamination the eptance of a C-141 report does not relieve the Amber Groves	report by the OCD doe nat pose a threat to gro ne operator of respons Title:	s not relieve the undwater, surfac bility for compli	operator of liability sh e water, human health	ould their operations have or the environment. In deral, state, or local laws
email: agroves	@durangomidstream.com	Telephone:	(575)703-7992		

Received by OCD: 1/16/2023 8:54:48 Astate of New Mexico	v	Page 4 of 6		
	Incident ID	nAPP2222749455		
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	Facility ID			
	Application ID			
Remediation Plan				
Remediation Plan Checklist: Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be confirmed as part of any r	equest for deferral of	f 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 gr	roundwater.			
I hereby certify that the information given above is true and complete to the best of my know rules and regulations all operators are required to report and/or file certain release notification which may endanger public health or the environment. The acceptance of a C-141 report by liability should their operations have failed to adequately investigate and remediate contami surface water, human health or the environment. In addition, OCD acceptance of a C-141 re responsibility for compliance with any other federal, state, or local laws and/or regulations.	ons and perform corre the OCD does not re nation that pose a three	ective actions for releases elieve the operator of eat to groundwater,		
Printed Name: <u>Amber Groves</u> Title: <u>Senior Enviro</u>	onmental Specialist			
Signature: Date: Date:				
email: <u>agroves@durangomidstream.com</u> Telephone: <u>(575)703-7992</u>				
OCD Only				
Received by: Jocelyn Harimon Date:01/17/2023				
Approved Approved with Attached Conditions of Approval Der	nied 🗌 Def	erral Approved		
Signature: Date:				

Received by OCD: 1/16/2023 8:54:48 A Mate of New Mexico Page 6 Oil Conservation Division

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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

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

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Printed Name: Amber Groves	Title: <u>Senior Environmental Specialist</u>
Signature:	Date: <u>12/21/2022</u>
email: <u>agroves@durangomidstream.com</u> Teler	hone: <u>575-703-7992</u>

OCD	Only
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Received by: Jocelyn Harimon

Date: 01/17/2023

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:	Date:
Printed Name:	Title:

Frontier Field Services 6" Vandiver Pipeline #2 NMOCD Reference # nAPP2222749455 Terracon Project # KH227013



- Attn: New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505
- RE: Closure Report 6" Vandiver Pipeline #2 Section 18, Township 18 South, Range 26 East 32.740649°, -104.427193° Eddy County, New Mexico Terracon Project No. KH227013

Terracon Consultants, Inc. (Terracon) is pleased to submit this Closure Report for the site referenced above. The Closure Report was 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. Terracon developed the Closure Report in general accordance with our scope of work (KH227013) dated September 16, 2022. The following table outlines the actions that have been taken to achieve protection of fresh water and the environment in accordance with NMOCD regulations.

Action I tems

Completed Actions

	1)	Conducted an initial site assessment and a series of sampling events.
_	2)	Vertical and Horizontal delineation of release was achieved.
	3)	All conditions needed for approval of closure have been met.
	4)	All Maps and associated data for approval have been provided.
_	5)	During the sampling events, a series of boreholes were advanced with a hand

- 5) During the sampling events, a series of boreholes were advanced with a hand auger to determine the vertical extent of the contamination. Horizontal delineation was completed to determine the area of contamination and required sampling intervals.
- 6) Soil samples collected from the soil excavation were submitted to an approved laboratory to determine levels of impact both vertically and horizontally.
 - Excavation of the area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 8) All soil stockpiles onsite were placed on plastic and bermed around the edges to reduce loss.
- 9) Confirmation samples were collected every 200 square feet.

10)Remedial activities were terminated when confirmation samples were collected below the NMOCD RAL's for Oil and Gas impacted soils, or a competent rock layer was encountered.

11)Backfill of all areas of the excavation to surrounding grade and reseeding has been completed.

Durango Midstream Services 6" Vandiver Pipeline #2 NMOCD Reference # nAPP2222749455 Terracon Project # KH227013



Anticipated Actions

1) Approval by the NMOCD

Terracon appreciates this opportunity to provide environmental services to Frontier Field Services (Frontier). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely, Terracon Consultants, Inc.

Travis L. Casey Senior Staff Scientist Carlsbad Office Erin Loyd, P.G. (TX) Principal Office Manager – Lubbock

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Incident Information	.2
General Site Characteristics	.3
Regulatory Framework and Response Action Levels	.4
Soil Investigation Discussion	
Release Margins Data Evaluation	
Release Investigation Data Summary	5
Soil Management Plan	

Attachments:

Appendix A – Exhibits

- Exhibit 1 Topo Map
- Exhibit 2 Site Map
- Exhibit 3 Initial Site Investigation Map
- Exhibit 4 Confirmation Soil Sampling Map
- Exhibit 5 NMOSE POD Location Map
- Exhibit 6 Cave Karst Public UCP Map

Appendix B – Tables, Procedures, and Figures

- Table 1 Closure Criteria for Soils Impacted by a release
- Table 2 Soil Sample Analytical Results
- Appendix C Photographic Log

Appendix D – Analytical Report and Chain of Custody

Appendix E – Waste Manifest

Appendix F – Terracon Standard of Care, Limitation, and Reliance



Incident Information

The following table provides detailed information regarding the August 12,2022 Natural Gas release site in Eddy County, New Mexico:

Required Information	Site and Release information					
Responsible party	The facility is operated by Dura	The facility is operated by Durango Midstream Services				
Local contact	Contact: Miss Amber Groves	P: (575) 703-7992				
		E: AGroves@durangomidstream.com				
NMOCD Notification	-	lotice of the release was provided to the NMOCD web portal by Kerry Egan august 15, 2022. Incident number nAPP2222749455 was assigned to the elease.				
Time of incident	August 12, 2022, discovered					
Discharge event	Pinhole leak in pipeline due to Internal and External Corrosion of bottom on pipeline.					
Type of discharge	The documented volume of gas to indicate that 2.29bbls. of liq	released was 99.46 Mcf. There was evidence uid was released.				
Quantity of released material	Total Gas Volume: 99.64 Mcf Total Fluids: 2.29 bbls					
Immediate corrective actions	Replacement of the Corroded Pipeline Section. No freestanding liquids were contained or recovered. The area impacted by the gas release is within the Pipeline Right of Way (ROW) in a pasture. All precautions have been taken to ensure all wildlife within pasture do not have access to release area.					



	General Site Characteristics						
Remedial Determining Information	Site Ranking Characteristics						
Facility description Site Map – (Exhibit 2 in Appendix A)	6" Vandiver Pipeline #2 is in Eddy County, New Mexico. It is an area located within Section 18, Township 18 South, Range 26 East, approximately 7.19 miles Southwest of Artesia, New Mexico. The site is predominantly ROW.						
Site characteristics Topographic Map – (Exhibit 1 in Appendix A)	Semi-Flat surface within release area; Surrounding area is also semi- flat wit a slight slope to the south-southeast.						
Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)	POD Number: (RA-01469 POD 2)Depth to Groundwater:150 ft. bgsDistance to Well:0.34 miles to the northeastDate Drilled:April 19, 1960Groundwater Quality:Groundwater at the site is predominately used forlivestock and agricultural production.						
Surface Water	Pecos River (South-eastern Eddy County, NM), approximately 5.85 miles to Northeast.						
Soil Characteristics	Soils at the site are mapped as Pima, Reagan, Dev (Pe)soils, 0 to 1 percent slopes, well-drained, 0 to 6 inches loamy, 6 to 60 inches Bottomland. This soil has a surface layer of loamy. Restrictive features are present at 80 inches bgs resulting in the formation being categorized with a low runoff classification.						
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 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 Mid-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 low potential. A layer of solid competent rock was encountered from 11 to 21 inches bgs within the release margins. The full extent of release quantities and excavation activities did extend greater than 84 inches bgs.						



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. The following sections present additional details on the applicability of these guidance documents to the subject site.

Reclamation Levels (Surface to 4 ft. bgs)

The following Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (total 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 Benzene, Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg



Soil Investigation Discussion

During Terracon's September 15, 2022, through September 23, 2022 release investigation activities, a total of 7 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. A total of 17 samples were collected for this release. 10 of those samples were from within the release margins.

Release Margins Data Evaluation

Reclamation Assessment Data Evaluation

A total of 4 soil samples were collected from throughout the release extent, including side walls (SW), floor samples (FS), and surface samples (SS). All samples were analyzed for the presence of BTEX, chloride, and/or TPH. Three samples exhibit concentrations of BTEX or TPH constituents above applicable laboratory Sample Detection Levels (SDLs). The detected BTEX or TPH concentrations ranged from 1,200mg/kg in soil sample BH01-1 (0 ft bgs to 1 ft bgs) to 32,200mg/kg in soil sample BH02-5 (4 ft bgs to 5 ft bgs), as summarized in Table 1.

Each of the 4 samples collected were analyzed for the presence of chloride. All of the samples exhibit concentrations of Chlorides constituents below applicable laboratory Sample Detection Levels (SDLs), as summarized in Table 1.

Confirmation Sampling Data Evaluation

Remediation Assessment Data Evaluation

A total of 9 soil samples were collected from throughout the release extent, including side wall samples (SW) and floor samples (FS). All samples were analyzed for the presence of BTEX, Benzene, and/or TPH. None of the samples exhibited concentrations of BTEX, Benzene, or TPH constituents above applicable laboratory SDLs, as summarized in Table 1.

A total of 9 soil samples were collected from throughout the release extent. All samples were analyzed for the presence of Chlorides. All 9 samples did not exhibit concentrations of Chlorides constituents above applicable laboratory SDLs, as summarized in Table 1.

Release Investigation Data Summary

Based on the review of the above release investigation analytical results, the presence of petroleum hydrocarbon constituents (BTEX/TPH) were not detected at concentrations above applicable NMOCD Reclamation and/or Remediation Action Limits.



Of all the soil samples analyzed, all soil samples exhibited chloride concentrations below the applicable NMOCD Reclamation Action Limit of 600 mg/kg. None of the soil samples analyzed for chlorides exceeded the NMOCD Remediation Action Limit (RAL). Field Services respectfully requests closure of nAPP2222749455.



Soil Management Plan						
Soil Objectives	Approach Actions					
General Soil Plan	Alternative analysis indicated the most effective remedial action was excavation of all impacted materials and disposal of impacted materials at an approved oil and gas waste facility.					
Reclamation Response Objectives	Removal of impacted materials from surface to 4 ft. below grade surface (bgs) that had chloride concentrations exceeding 600 mg/kg and replacement with clean fill.					
Remediation Response Objectives	Ensure that all soils at depths below 4 ft. bgs. were at a chloride concentration below 600mg/kg.					
Soil Management	Excavated soil was placed on a 20-mil poly liner bermed around the edges to avoid impacts to native soils.					
Depth of Remediation Confirmation Soil Map - (Figure 3 in Appendix A)	The depths of remedial activities at the site were determined by titrating confirmation samples during excavation activities. The sections of the excavation from FS01 through FS03 were completed at 7ft. bgs., while sections N-SW, E-SW, S-SW, and W-SW were terminated at 0 - 7ft. bgs.					
Disposal Facility Waste Manifest – (Appendix E)	Impacted soils were taken to Lealand Disposal Facility.					
Quantity Disposed Waste Manifest – (Appendix E)	A total of 15 cubic yards were excavated and disposed of at the Lealand disposal facility.					

APPENDIX A – EXHIBITS







<u>BH02</u> 9/19/22 0-1' Grab. Sample TPH – **8,160** *Chloride* – **112.0**

BH02 9/19/22 4-5' Grab. Sample TPH – **39,700** Chloride – **352.0**







APPENDIX B – TABLES, PROCEDURES, AND FIGURES

Table 1						
Closure	Criteria for Soils Imp	bacted by a Release	-			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS	Constituent Method*		Limit**			
	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	100 mg/kg			
<u><</u> 50 feet	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			
	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg			
51 feet – 100 feet	GRO+DRO	EPA SW-846 Method 8015 M	1,000 mg/kg			
51 1661 - 100 1661	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			
	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg			
>100 feet	TPH (GRO+DRO)	EPA SW-846 Method 8015 M	1,000 mg/kg			
>100 1661	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			

*Or other methods approved by the division

**Numerical limits or natural background level, whichever is greater

***This applies to releases of produced water or other fluids, which may contain chloride

.

			SOIL SAMPLE	ANALYTICAL F	TABLE 1 RESULTS - BTEX ¹ , Chloride ² , and TPH ³ ver Pipeline #2 oject No. KH227013				
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Excavated/ In- Situ	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	GRO	TPH (8015I (mg/kg) DRO	M)
			Ii	nitial Release M	largin Samples (Off Pad)	1	ONO	5.00	LAT DA
BH01	0-1'	Grab	Excavated	09/19/22	Benzene - 11.2 Toluene - 164 Ethylbenzene - 20.5 Total Xylenes - 402 Total BTEX - 598	208	3,420	3,550	435
BH01	4-5'	Grab	Excavated	09/19/22	Benzene - 33.1 Toluene - 384 Ethylbenzene - 78.8 Total Xylenes - 628 Total BTEX - 1120	288	9,880	6,190	700
SS-N	0.5	Grab	In-Situ	09/19/22	Benzene - <0.050 Toluene - 0.213 Ethylbenzene - <0.050 Total Xylenes - 0.241 Total BTEX - 0.454	48	<10.0	<10.0	<10.0
BH02	1'	Grab	Excavated	09/19/22	Benzene - 13 Toluene - 248 Ethylbenzene - 25.9 Total Xylenes - 535 Total BTEX - 822	112	8,160	5,380	645
BH02	4-5'	Grab	Excavated	09/19/22	Benzene - 60.2 Toluene - 695 Ethylbenzene - 148 Total Xylenes - 1,210 Total BTEX - 2,110	352	39,700	21,500	2,280
SS-S	0.5'	Grab	In-Situ	09/19/22	Benzene - 0.246 Toluene - 1.73 Ethylbenzene - 0.294 Total Xylenes - 2.76 Total BTEX - 5.06	32	<10.0	<10.0	<10.0
SS-E	0.5'	Grab	In-Situ	09/19/22	Benzene - <0.050 Toluene - 0.711 Ethylbenzene - 0.117 Total Xylenes - 1.78 Total BTEX - 2.61	48	<10.0	<10.0	<10.0
				Confirmatio	n Samples (Off Pad)				
W-SW	0-7'	Comp	In-Situ	09/19/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	32	<10.0	<10.0	<10.0
N-SW	0-7'	Comp	In-Situ	09/19/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	160	<10.0	<10.0	<10.0
E-SW	0-5'	Comp	In-Situ	09/19/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	64	<10.0	<10.0	<10.0
S-SW	0-5'	Comp	In-Situ	09/19/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	32	<10.0	<10.0	<10.0
FS01	15-16'	Comp	In-Situ	09/19/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	16	<10.0	<10.0	<10.0

.

			SOIL SAMPLE	ANALYTICAL RI Vendiv	ABLE 1 ESULTS - BTEX ¹ , Chloride ² , and TPH ³ er Pipeline #2				
Sample I.D.	Sample Denth Evenueted/In-				ject No. KH227013 BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg) GRO DRO EXT DRO		
F\$02	15-16'	Comp	In-Situ	11/23/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	96	<10.0	119	<10.0
FS2.1	15-16'	Comp	In-Situ	12/05/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	32	<10.0	<10.0	<10.0
FS03	13-14'	Comp	In-Situ	11/23/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	96	<10.0	93.1	<10.0
FS04	13-14'	Comp	In-Situ	11/23/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	112	<10.0	79.3	<10.0
FS05	13-14'	Comp	In-Situ	11/23/22	Benzene - <0.050 Toluene - <0.050 Ethylbenzene - <0.050 Total Xylenes - <0.150 Total BTEX - <0.300	64	<10.0	<10.0	<10.0
(Applic	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		100		
1	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		100	

Total BTEX - 50
 Total STEX - 50
 Total STEX
 Total STEX - 50
 Total

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.

Casey, **Travis**

From: Sent:	Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov> Monday, November 14, 2022 3:32 PM</robert.hamlet@emnrd.nm.gov>
То:	Amber Groves
Cc:	Casey, Travis; Chad Frost; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD; Bratcher, Michael, EMNRD; Billings, Bradford, EMNRD
Subject:	(Extension Approval) - nAPP2222749455 Frontier Vandiver #2

RE: Incident #NAPP2222749455

Amber,

Your request for an extension to **February 10th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Amber Groves <AGroves@durangomidstream.com>

Sent: Wednesday, November 9, 2022 1:32 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Billings, Bradford, EMNRD < Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; travis.casey@terracon.com; Chad Frost <Cfrost@durangomidstream.com> **Subject:** [EXTERNAL] nAPP2222749455 Frontier Vandiver #2 Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

Frontier Field Services would like to respectfully request a 90 extension for nAPP2222749455 Vandiver #2. Landowner contacts and approvals has been challenging on this project. Please feel free to give me a call should you have any questions.

Thank you,

Amber Groves |Sr. Environmental Specialist Mobile 575.703.7992



https://www.durangomidstream.com/ agroves@durangomidstream.com

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APPENDIX C – PHOTOGRAPHIC LOG

Terracon

6" Vandiver Pipeline #2 Release
Eddy County, New Mexico
December 20, 2022
Terracon Project No. KH227013



PHOTO 1: View of area prior to Excavation from the North looking South



PHOTO 2: View of area prior Excavation Visible Staining to the East

Responsive Resourceful Reliable

Terracon

6" Vandiver Pipeline #2 Release
Eddy County, New Mexico
December 20, 2022
Terracon Project No. KH227013



PHOTO 3: View of area prior Excavation Visible Staining facing Pipeline



PHOTO 4: View of area prior Excavation Visible Staining facing North

Responsive Resourceful Reliable

6" Vandiver Pipeline #2 Release Eddy County, New Mexico December 20, 2022 Terracon Project No. KH227013





PHOTO 5: Excavation at 5' facing West



PHOTO 6: Excavation at 5' facing East

Responsive Resourceful Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



September 23, 2022

JOSEPH GUESNIER TERRACON CONSULTANTS 5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: VENDIVER #2

Enclosed are the results of analyses for samples received by the laboratory on 09/19/22 16:58.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: BH01 - 1' (H224331-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.2	1.00	09/22/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	164	1.00	09/22/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	20.5	1.00	09/22/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	402	3.00	09/22/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	598	6.00	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	150	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3420	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	3550	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	435	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	357	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	251	% 46.3-17	'8						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: BH01 - 5' (H224331-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.1	2.00	09/22/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	384	2.00	09/22/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	78.8	2.00	09/22/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	628	6.00	09/22/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	1120	12.0	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	139	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9880	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	6190	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	700	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	597	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	351	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: SS - N (H224331-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	0.213	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	0.241	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	0.454	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	83.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: BH02 - 1' (H224331-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.0	2.00	09/22/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	248	2.00	09/22/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	25.9	2.00	09/22/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	535	6.00	09/22/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	822	12.0	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	137	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8160	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	5380	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	645	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	592	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	329	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: BH02 - 5' (H224331-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	60.2	5.00	09/22/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	695	5.00	09/22/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	148	5.00	09/22/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	1210	15.0	09/22/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	2110	30.0	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	39700	100	09/21/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	21500	100	09/21/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	2280	100	09/21/2022	ND					
Surrogate: 1-Chlorooctane	1390	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	327	% 46.3-17	'8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: SS - S (H224331-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.246	0.050	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	1.73	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	0.294	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	2.79	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	5.06	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: SS - E (H224331-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	0.711	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	0.117	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	1.78	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	2.61	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	78.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.4	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: W - SW 0' - 7' (H224331-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	0.050	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	80.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.5	% 46.3-17	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: N - SW 0' - 7' (H224331-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	<0.050	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result Reporting Limit		Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result Reporting Lin		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	76.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.0	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: E - SW 0' - 5' (H224331-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	2.05	103	2.00	5.76	
Toluene*	<0.050	0.050	09/21/2022	ND	2.02	101	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.96	98.2	2.00	6.35	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	6.06	101	6.00	6.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	81.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.4 % 46.3-178		8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: S - SW 0' - 5' (H224331-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2022	ND	2.05	103	2.00	5.76		
Toluene*	<0.050	0.050	09/21/2022	ND	2.02	101	2.00	5.53		
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.96	98.2	2.00	6.35		
Total Xylenes*	<0.150	0.150	09/21/2022	ND	6.06	101	6.00	6.98		
Total BTEX	<0.300	0.300	09/21/2022	ND						
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 69.9-14	0							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/21/2022	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: CK						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	188	94.2	200	2.84		
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	198	99.1	200	1.03		
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND						
Surrogate: 1-Chlorooctane	78.0	% 45.3-16	1							
Surrogate: 1-Chlorooctadecane	79.2	% 46.3-17	10							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	VENDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS - 01 (H224331-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	2.05	103	2.00	5.76	
Toluene*	<0.050	0.050	09/21/2022	ND	2.02	101	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.96	98.2	2.00	6.35	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	6.06	101	6.00	6.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	188	94.2	200	2.84	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	198	99.1	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	78.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.8	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Received by OCD: 1/16/2023 8:54:48 AM

Sampler - UPS - Bus -	Delivered By: (Circle One)	Ivelliquished by	Cluster Relinquished By:	Relinquished By:	affiliates or successors arising	analyses. All claims including			7	1-6	~	7		N	2		HZ24331	Lab I.D.		Sampler Name:	Project Location: Artasia	Project Name: Vendiver	Project #: 16227013	Phone #: (806)300 -	city: Lubbock	Address: 5847	Project Manager:	Company Name:	
Bus - Other:			Lann?		service. In no event shall Cardinal be liable for incidential or consequential darinages, including winnow, worker and the such claim is based upon any of the above stated reasons or otherwise. affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardedes of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive runnary or any more and in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other curves what over shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other curves what over shall be deemed waived in instances interruptions loss of use, or loss of profits incurred by client, its subsidiaries,	A 10 10 10 10 10 10		50 - E	000		RH07	RH02	1	13HOI	BHO		Sample I.D.		C	-	-15	7013	300 - 0140	₹	SQR S	Joseph Gu	Tenacon	(575) 393-2326 FAX (575) 393-2476
Corrected Temp. $^{\circ}C_{\mathcal{A}}\mathcal{A}$ \square No	Observed Temp. °C	Time:	Time: 4: 58pn	Date: 9-19-22	nce of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated	her cause whatsoever shall be						ייט			5			ļ.D		orley	NM		Project Owner:	Fax #:	State: TX	cet	Guesnier		FAX (575) 393-2476
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Page 48 of 62

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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		ſ	r the	by the client fo	to the amount paid	shall be limited	tract or tort,	based in cont	y whether	m arising	any clai	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	nd Damages. Cardinal's liabilit	PLEASE NOTE: Liability a
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ANALYSIS REQUEST		1			BILL TO	BI							" Terracon	Company Name:
					. 7						2476	575) 393-2326 FAX (575) 393-2476	(575) 393-232	
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November 30, 2022

JOSEPH GUESNIER TERRACON CONSULTANTS 5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: VANDIVER #2

Enclosed are the results of analyses for samples received by the laboratory on 11/28/22 9:53.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

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:	11/28/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	VANDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Shalyn Rodriguez
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS 02 (H225565-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2022	ND	1.98	98.9	2.00	3.96	
Toluene*	<0.050	0.050	11/29/2022	ND	2.20	110	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.19	110	2.00	4.66	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.69	112	6.00	5.47	
Total BTEX	<0.300	0.300	11/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2022	ND	218	109	200	3.45	
DRO >C10-C28*	119	10.0	11/29/2022	ND	218	109	200	0.337	
EXT DRO >C28-C36	<10.0	10.0	11/29/2022	ND					
Surrogate: 1-Chlorooctane	104	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	125	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	VANDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Shalyn Rodriguez
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS 03 (H225565-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2022	ND	1.98	98.9	2.00	3.96	
Toluene*	<0.050	0.050	11/29/2022	ND	2.20	110	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.19	110	2.00	4.66	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.69	112	6.00	5.47	
Total BTEX	<0.300	0.300	11/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2022	ND	218	109	200	3.45	
DRO >C10-C28*	93.1	10.0	11/29/2022	ND	218	109	200	0.337	
EXT DRO >C28-C36	<10.0	10.0	11/29/2022	ND					
Surrogate: 1-Chlorooctane	107	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	125	% 46.3-17	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	VANDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Shalyn Rodriguez
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS 04 (H225565-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2022	ND	1.98	98.9	2.00	3.96	
Toluene*	<0.050	0.050	11/29/2022	ND	2.20	110	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.19	110	2.00	4.66	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.69	112	6.00	5.47	
Total BTEX	<0.300	0.300	11/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2022	ND	218	109	200	3.45	
DRO >C10-C28*	79.3	10.0	11/29/2022	ND	218	109	200	0.337	
EXT DRO >C28-C36	<10.0	10.0	11/29/2022	ND					
Surrogate: 1-Chlorooctane	103	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	126	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	VANDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Shalyn Rodriguez
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS 05 (H225565-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2022	ND	1.98	98.9	2.00	3.96	
Toluene*	<0.050	0.050	11/29/2022	ND	2.20	110	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.19	110	2.00	4.66	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.69	112	6.00	5.47	
Total BTEX	<0.300	0.300	11/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2022	ND	218	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/29/2022	ND	218	109	200	0.337	
EXT DRO >C28-C36	<10.0	10.0	11/29/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	119 9	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Project Manager	Project Manager: Joseph Guesnier									P.C	P.O. #:	75									_	_			-			_							-	
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City: Carlsbad	State: NM	Zip:		88220	20					Attn:	2																									
Phone #: 8065077057										Ad	Address:	SS																								
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Sampler Name:	Travis Casey									Fa	Fax #:								d45			021														
FOR LAB USE ONLY			٦			ž	MATRIX	Ĩ	l		PR	(ES	PRESERV.		SAMPLING	z	ഹ		hoo	15		d 8														
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service. In no event shall Ca affiliates or successors arisin	linal be liable for incidental or consequ out of or related to the performance of	g withou Cardinal	t limita , rega	ation, rdles	busir s of w	hethe	ntern er su	sh cla	ns, lo aim is	ss of	use, d up	or lo	ss of ny of	is interruptions, loss of use, or loss of profits incurred by client, its subsidiaries ther such claim is based upon any of the above stated reasons or otherwise.	d by clie ted reas	ons o	r othe	sidiario	e, es,																	
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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 55 of 62



December 12, 2022

JOSEPH GUESNIER TERRACON CONSULTANTS 5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: VANDIVER #2

Enclosed are the results of analyses for samples received by the laboratory on 12/05/22 14:03.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/05/2022	Sampling Date:	12/05/2022
Reported:	12/12/2022	Sampling Type:	Soil
Project Name:	VANDIVER #2	Sampling Condition:	Cool & Intact
Project Number:	KH227013	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO MIDSTREAM - ARTESIA, NM		

Sample ID: FS 2.1 (H225695-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.21	111	2.00	4.05	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.14	107	2.00	3.49	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.56	109	6.00	3.47	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	193	96.7	200	6.77	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	173	86.6	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	76.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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joesph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com	esnier@terracor rley@terracon.c	joesph.gu austin.wo	REMARNS:		, in the second s		Time:		
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		plicable	id by the client for the ar completion of the ap	shall be limited to the amount pa ed by Cardinal within 30 days aft	alyzes. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	e deemed wai	any other cause whatsoever shall t	ing those for negligence and	alyses. All claims includ
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ANALYSIS REQUEST				BILL TO				le: Terracon	Company Name:
						-2476	326 FAX (575) 393-2476	(575) 393-2326	
						8240	101 East Marland, Hobbs, NM 88240	101 East Mar	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories

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APPENDIX E – WASTE MANIFEST

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

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	176258
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2222749455 6 IN VANDIVER PIPELINE #2, thank you. This closure is approved. 5/15/2023 rhamlet

CONDITIONS

Action 176258

Condition Date