Page 6 Oil Conservation Division

Incident ID	nAPP2304838742 Page 1 of 3
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.

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: Senior Environmental Specialist Date: 3/15/2023 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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Oil Conservation Division

Did this release impact groundwater or surface water?

What is the shallowest depth to groundwater beneath the area affected by the release?

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Incident ID	nAPP2231250350	
District RP		
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Application ID	,	

40____ (ft bgs)

☐ Yes ⊠ No

Site Assessment/Characterization

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

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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Page 4 Oil Conservation Division

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Incident ID	nAPP2231250350	3
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Facility ID		
Application ID		

regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ublic 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 uiled to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In didition, 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.	
rinted Name: Amber Groves Title: Senior Environmental Specialist	
rinted Name: Amber Grover Title: Senior Environmental Specialist ignature: 3/15/2023	
nail: <u>agroves@durangomidstream.com</u> Telephone: <u>(575)703-7992</u>	
CD Only	
eceived by: Jocelyn Harimon Date:03/16/2023	

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Page 5
Oil Conservation Division

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Incident ID	nAPP2231250350
District RP	
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 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.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Amber Groves Title: Senior Environmental Specialist
Signature:
email: <u>agroves@durangomidstream.com</u> Telephone: <u>(575)703-7992</u>
OCD Only
Received by: Jocelyn Harimon Date:03/16/2023
Approved Deferral Approved Deferral Approved
Signature: Date:

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Page 6 Oil Conservation Division

Incident ID	nAPP2231250350	
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 line must be notified 2 days prior to liner inspection)	r integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC District o	ffice must be notified 2 days prior to final sampling)
Description of remediation activities	
	otifications and perform corrective actions for releases which port by the OCD does not relieve the operator of liability namination that pose a threat to groundwater, surface water, port does not relieve the operator of responsibility for responsible party acknowledges they must substantially at existed prior to the release or their final land use in reclamation and re-vegetation are complete.
OCD Only Residual harmon	02/46/2022
Received by: Da	tte: <u>03/16/2023</u>
Closure approval by the OCD does not relieve the responsible party of liability remediate contamination that poses a threat to groundwater, surface water, huma party of compliance with any other federal, state, or local laws and/or regulation	an health, or the environment nor does not relieve the responsible
Closure Approved by:]	Date:
Printed Name:	Title:

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Page 3	Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

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Incident ID	nAPP2304838742	J
District RP		
Facility ID		
Application ID		

40

(ft bgs)

Site Assessment/Characterization

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

	(8)	
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.		
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If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Incident ID	nAPP2304838742	
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I hereby certify that the information given above is true and complete to the best of regulations all operators are required to report and/or file certain release notification public health or the environment. The acceptance of a C-141 report by the OCD do failed to adequately investigate and remediate contamination that pose a threat to graddition, OCD acceptance of a C-141 report does not relieve the operator of responsional and/or regulations.	s and perform corrective actions for releases which may endanger es not relieve the operator of liability should their operations have oundwater, surface water, human health or the environment. In
\(\)	<u>Senior Environmental Specialist</u> <u>3/15/2023</u> (575)703-7992
OCD Only	
Received by:Jocelyn Harimon	Date:03/16/2023

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Page 5
Oil Conservation Division

Incident ID	nAPP2304838742	9
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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 schools for a proposed remediation (costs) if any distingular time leading line in the cost of th
Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : 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.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name Amber Groves Title: Senior Environmental Specialist
Signature: Date:
email: <u>agroves@durangomidstream.com</u> Telephone: <u>(575)703-7992</u>
OCD Only
Received by:Jocelyn Harimon Date:03/16/2023
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

Regeived by OCD: 3/15/2023	8:11:03 PMate of New Mexico
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District RP	
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Closure

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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	
Note: appropriate OCD must be notified 2 days prior to liner inspection)	District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final samp	ing)
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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 remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



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

RE: Release Investigation and Closure Report

Sherrell 4" Mucho Luck Pipeline Unit P, Section 27, Township 16 South, Range 27 East 32.88949°, -104.2584° Eddy County, New Mexico Terracon Project No. KH237009

To Whom it May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation, Request, and Closure Report for the site referenced above. The scope of services 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. The investigative response actions resulted from a natural gas release from a corroded 4-inch lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted release.

Action Items

Completed Actions

- 1) This Closure Report covers two releases at the singular coordinate location of 32.88949, -104.2584 (nAPP2231250350 & nAPP2304838742). This report is intended to document work performed for each respective incident number.
- 2) All conditions needed for approval of closure have been met.
- 3) All Maps and associated data for approval are attached to this report.
- 4) Conducted an initial site assessment and a series of sampling events.
- 5) Soil samples collected from the excavation were submitted to an accredited laboratory to determine levels of impact vertically and horizontally.
- 6) Excavation of the release area was completed with the intent to remove the impacted soil as determined by the Closure Criteria set by NMOCD.
- 7) To prevent any unintentional loss, soil stockpiles onsite were staged on plastic with a berm constructed around the edges.
- 8) Confirmation samples were collected every 200 square feet.
- 9) Remedial activities were terminated when confirmation samples were collected below the NMOCD RALs for Oil and Gas impacted soils.

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



Anticipated Actions

- 1) Following the completion of remedial activities, excavated areas are to be backfilled, brought to the surrounding grade, and reseeded.
- 2) Approval by the NMOCD.

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

Sincerely,

Terracon Consultants, Inc.

Trávis Casey
Senior Staff Scientist

Carlsbad

Erin Løyd, P.G. (TX)

Senior Principal

Office Manager - Lubbock

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Exhibit 2 – Site Map	
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Exhibit 5 – Designated Wetland Map	
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Appendix D - Analytical Report and Chain of Custody	

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

Appendix E - Initial Form C-141

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



Section 1 – Incident Information

The following table provides detailed information regarding the November 8, 2022, natural gas, and petroleum liquid release at the Sherrell 4" Mucho Luck pipeline (Mucho Luck) site in Eddy County, New Mexico:

Required Information	Site and Release information		
Responsible party	The pipeline is operated by Frontier Field Services LLC.		
Local contact	Contact: Ms. Amber P: (575)-703-7992		
	Groves E: <u>agroves@durangomidstream.com</u>		
NMOCD Notification		Notice of the release was provided to the NMOCD District 2 Artesia Office by Mr. Chad Frost/Amber Groves.	
	NMOCD Reference ID: nAP		
	NMOCD Reference ID: nAP	P230483	88742
Facility Description	The Mucho Luck site is located in Eddy County, New Mexico within Unit P, Section 27, Township 16 South, Range 27 East. The site is approximately 8.9 miles northeast of Artesia, New Mexico, and is located in predominantly developed oil and gas Right of Way (ROW) within the Bureau of Land Management (BLM) owned native pastureland.		
Discovery of incident	nAPP2231250350 November 8, 2022, discovered during daily inspection.		
	nAPP2304838742		February 15, 2023, occurred during active remediation of (nAPP2231250350)
Discharge event	The natural gas/liquids pipeline leak was caused by corrosion of the steel line and liquid 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/liquids release occurred in an open ROW, BLM-owned, native pastureland area. Soils at the site are affected at the surface beyond the depth of the pipeline.		
Quantity of released	nAPP2231250350	Total F	Fluids: 0.27 bbls
material		Natura	l Gas: 67 Mcf

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



Required Information	Site and Release information	
Quantity of released material	nAPP2304838742	Natural Gas: 68.95 Mcf
Immediate corrective actions	The leaking pipeline was closed in at the nearest isolation valve, blown down, and clamped. A backhoe was utilized to excavate soils to discover the source of the release.	

Section 2 – General Site Characteristics		
Physical Characteristic	Site Ranking Characteristics	
Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)	POD Number: (RA-12455 POD1) Depth to Groundwater: 55 ft. bgs Distance to Well: 1.7 miles to the southeast Date Drilled: September 12, 2016 Groundwater Quality: Groundwater quality at the site is predominately used for livestock production.	
Surface Water NM Wetland Map – (Exhibit 7 in Appendix A)	Pecos River, approximately 4.9 miles to the west.	
100-Year Flood Plain	This site is located outside the 100-year flood plain of the Pecos River.	
Soil Characteristics	Soils at the site are mapped as Reeves-Gypsum series soils, 0 to 3 percent slopes, well-drained moderately permeable soils that formed in calcareous and gypsiferous fine textured alluvium derived from gypsum beds. 3 to 7 inches weak fine subangular blocky structure; many very fine roots; common worm casts; strongly effervescent; moderately alkaline, 7 to 60 inches moist; massive; slightly hard, very friable, sticky and plastic; violently effervescent.	
Karst Characterization	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 high-level Karst risk area. Based on the full extent of release quantities and excavation activities did not extend greater than 108 inches bgs.	

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



Section 3 – 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, on June 21, 2018, and Restoration, Reclamation, and Revegetation (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 Mucho Luck site.

Section 3.1 – 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 the 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

Section 3.2 – 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

Sherrell 4" Mucho Luck pipeline 32.88949°, -104.2584° NMOCD Reference # nAPP2231250350 & nAPP2304838742 Terracon Project # KH237009



Section 4 – Remediation Activities

On February 22, 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 8 to 9 feet bgs.

Approximately 2,700 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts ceased based on the results of removing visual impacts. Excavated materials were disposed of at Lea Land Landfill.

Section 5 - Remediation Confirmation Assessment

Terracon mobilized to the site to collect composite samples from the excavation on February 14, 2023. During the active remediation on February 14, 2023, a second release occurred. Terracon mobilized to the site to collect composite samples from the excavation on February 22, 2023. A total of 9 composite soil samples (N-SW01, N-SW02, S-SW01, S-SW02, W-SW01, E-SW01, and FS-01 through FS-03) 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 BTEX, TPH, and chlorides. The samples collected were after remediation occurred for both incidents, therefore confirmation sampling is representative of both incident ID's.

Sidewall Sample denoted as (SW#) & Floor Sample denoted as (FS-#)

Section 6 – Analytical Results

Composite Soil samples collected from February 22, 2023, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory sample detection limits (SDLs).

Eight of the soil samples collected from the excavation area exhibited concentrations of chloride above laboratory SDLs and ranging from 16 mg/kg in FS-01 (8-9 feet) to 144 mg/kg in S-SW01 (0-9 feet). Chloride concentrations generally decrease with sample depth and are below the NMOCD RALs.

A summary of BTEX, chloride and TPH concentrations of all collected soil samples is attached as Table 1.

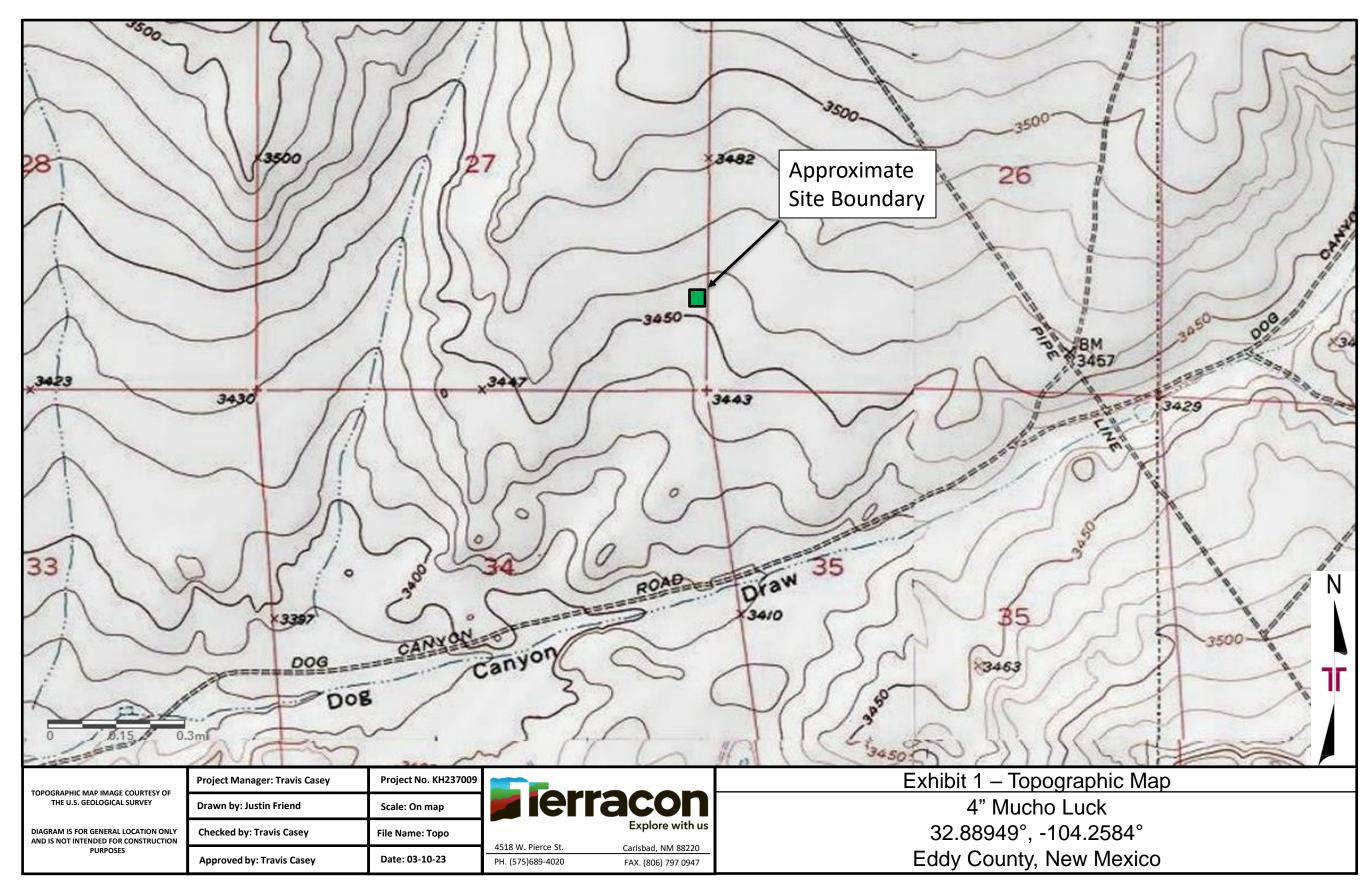
Section 7 – Conclusion and Closure Request

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon along with Frontier Field Services respectfully requests closure of incidents nAPP2231250350 and nAPP2304838742.

Facilities | Environmental | Geotechnical | Materials 5

APPENDIX A - EXHIBITS

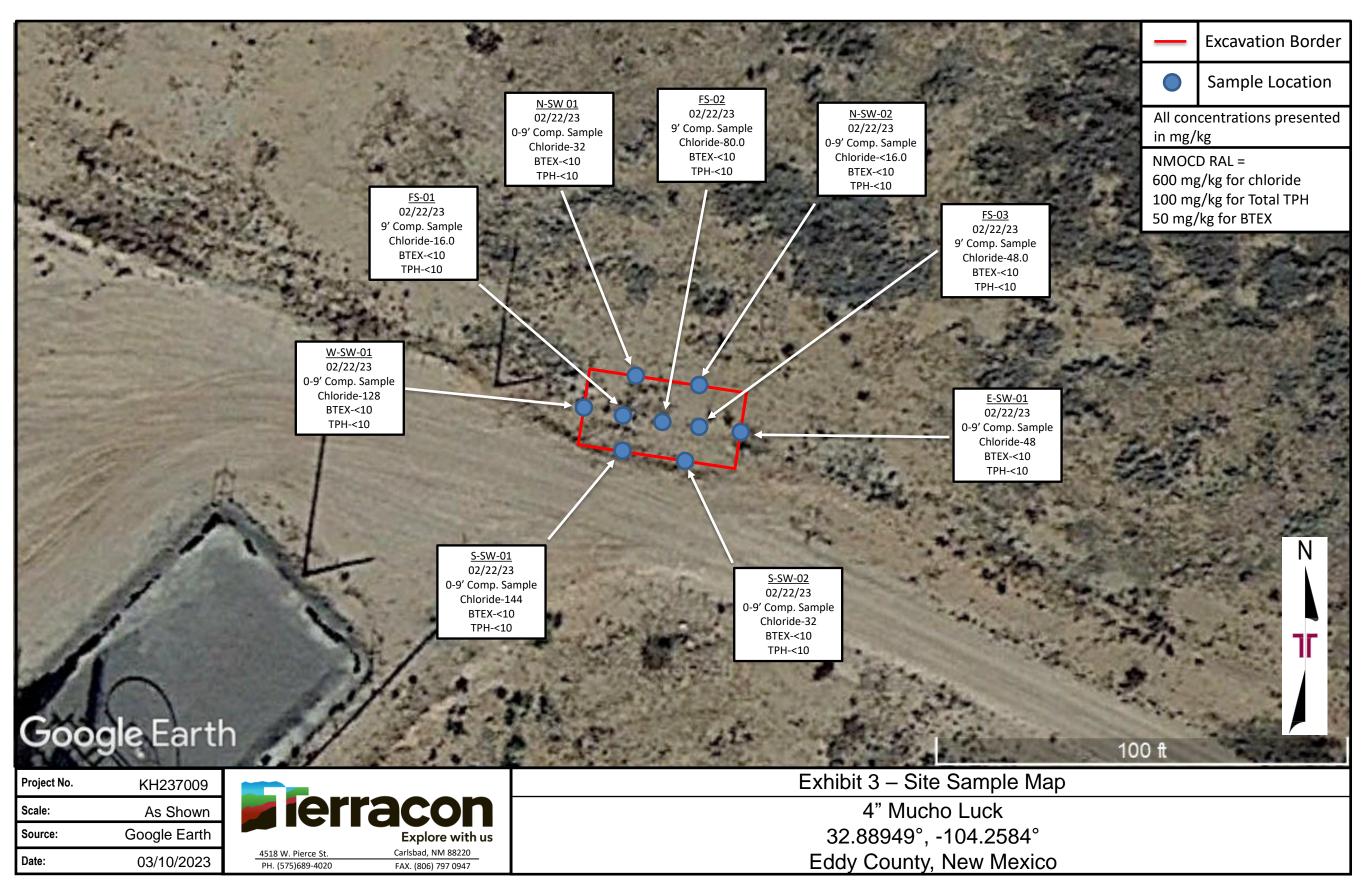
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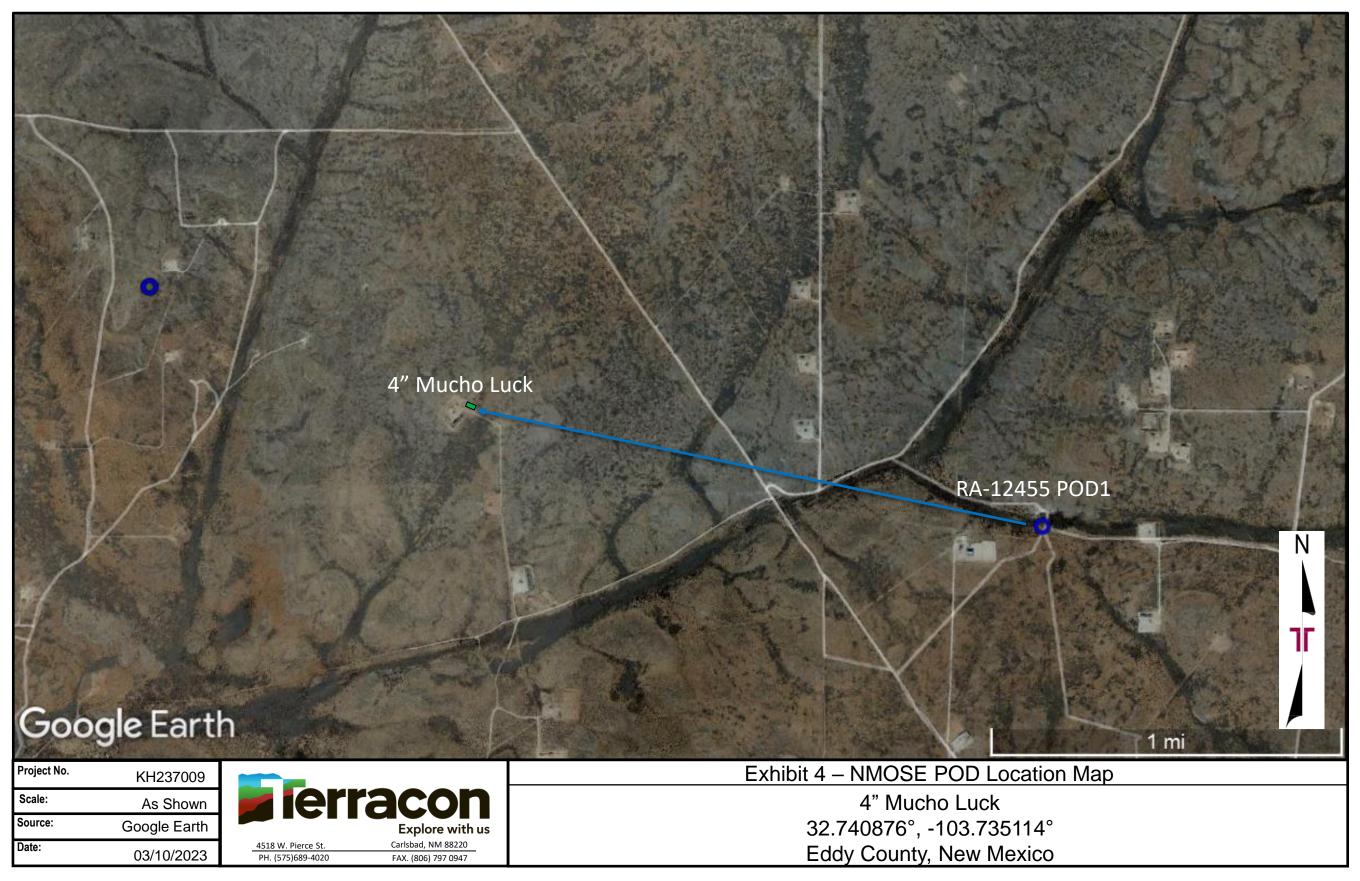
Page 19 of 50



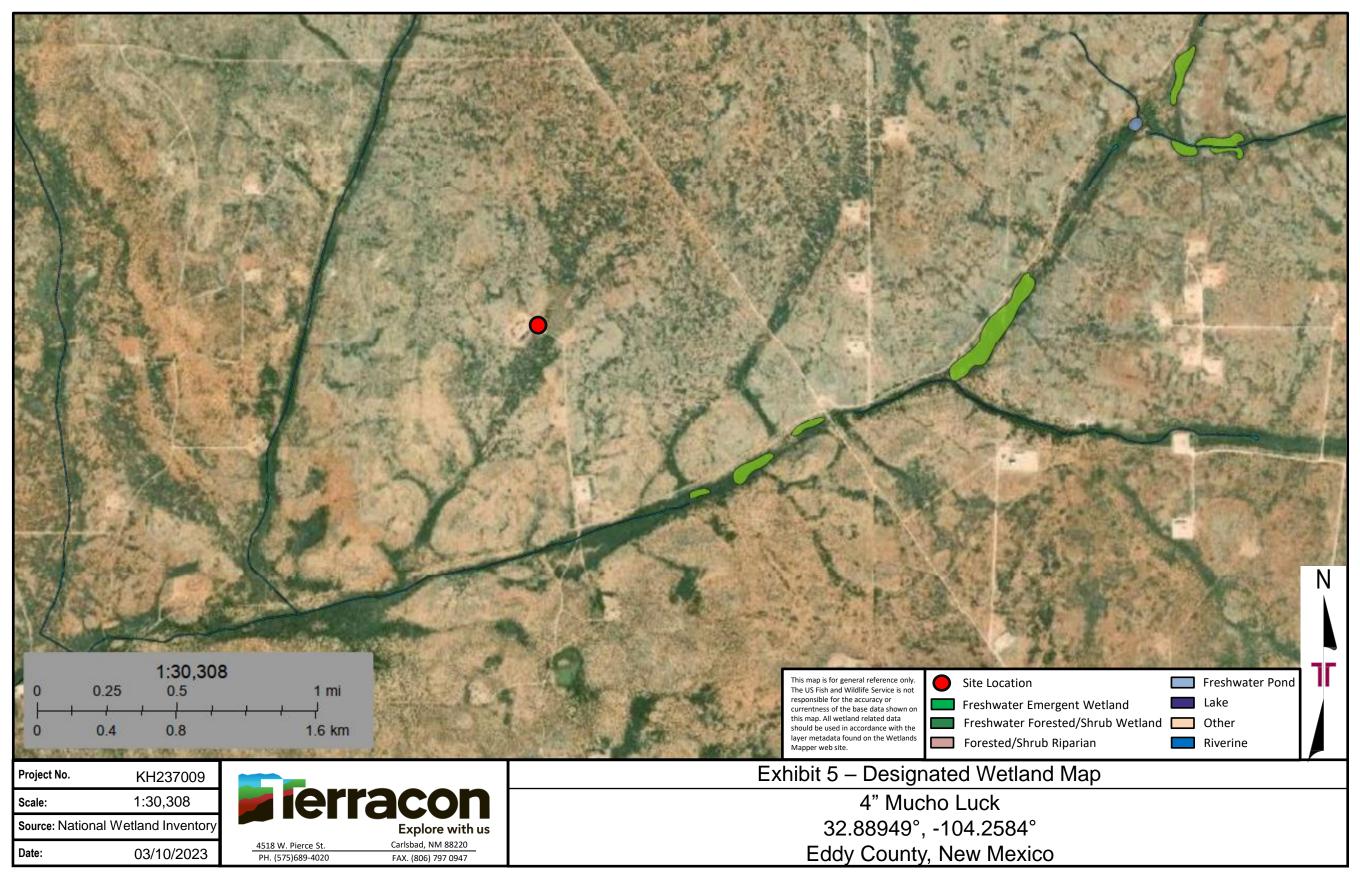
Received by OCD: 3/15/2023 8:11:03 PM



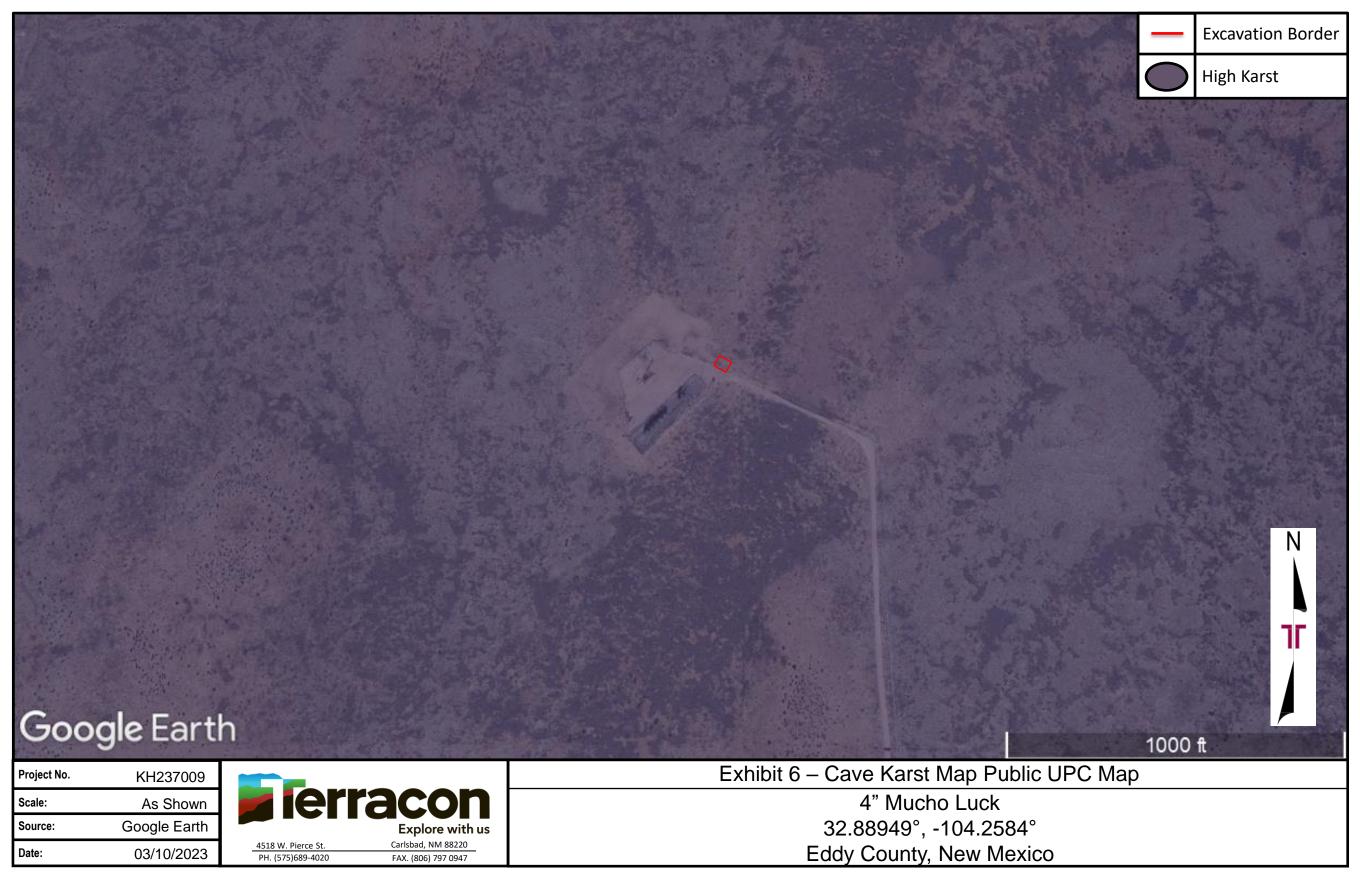
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APPENDIX B – TABLES, PROCEDURES, AND FIGURES

Table 1									
Closure Criteria for Soils Impacted 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						
<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						
31 leet – 100 leet	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						
400 foot	TPH (GRO+DRO)	EPA SW-846 Method 8015 M	1,000 mg/kg						
>100 feet	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

Sample I.D.

N-SW01

N-SW02

S-SW01

S-SW02

E-SW01

W-SW01

FS-01

FS-03

FS-02

Sample Depth

(ft. bgs)

0-9'

0-9'

0-9'

0-9'

0-9'

0-9

9'

q'

9'

NMOCD Reclamation Standards⁴

(Applicable for Soils from the Surface to 4 ft. Below Grade Surface)

EXT DRO

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX1, Chloride2, and TPH3 Sherrell 4" Mucho Luck pipeline Terracon Project No. KH237009 TPH (8015M) Chloride BTEX Sample Type Sample Date (mg/kg) (mg/kg) (mg/kg) GRO DRO Initial Release Margin Samples (Off Pad) Benzene - < 0.050 Comp 02/22/23 32.0 <10.0 <10.0 **Total BTEX - <0.300** Benzene - < 0.050 Comp 02/22/23 <16.0 <10.0 <10.0

Total BTEX - <0.300 Benzene - <0.050

Total BTEX - <0.300 Benzene - 10

Total BTEX - 50

144

32.0

48

128

16.0

48

80.0

600

600

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

100

100

NMOCD Remediation and Delineation Standards	Delizelle - 10
(Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)	Total BTEX - 50

Chloride = Chloride analyzed by EPA Method 300.

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

Comp

Comp

Comp

Comp

Comp

Comp

Comp

02/22/23

02/22/23

02/22/23

02/22/23

02/22/23

02/22/23

02/22/23

^{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

APPENDIX C – PHOTOGRAPHIC LOG





PHOTO 1: View of area prior to excavation

Responsive Resourceful Reliable





PHOTO 2: View of area prior to excavation

Responsive ■ Resourceful ■ Reliable





PHOTO 3: View of area during excavation



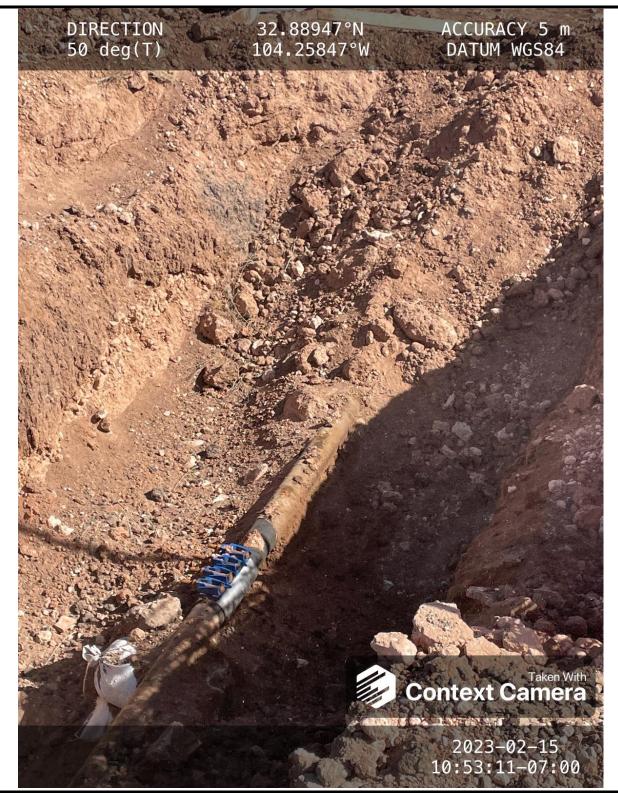


PHOTO 4: View of area during post excavation

APPENDIX D - ANALYTICAL REPORT AND CHAIN OF CUSTODY



February 27, 2023

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

RE: MUCHO LUCK

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 13:22.

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)

Celey D. Keene

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK
Project Number: KH237009
Project Location: DURANGO - EDDY

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: W - SW01 (H230850-01)

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/23/2023	ND	416	104	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

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: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK Project Number: KH237009

Project Location: **DURANGO - EDDY** Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: N - SW01 (H230850-02)

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-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	02/23/2023	ND	416	104	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Celey 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: 02/23/2023 Reported:

02/27/2023 MUCHO LUCK KH237009

Project Location: **DURANGO - EDDY** Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: S - SW01 (H230850-03)

Project Name:

Project Number:

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/23/2023	ND	416	104	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey 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: 02/23/2023 Reported:

02/27/2023 MUCHO LUCK KH237009

DURANGO - EDDY Project Location:

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: E - SW01 (H230850-04)

Project Name:

Project Number:

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/23/2023	ND	416	104	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK
Project Number: KH237009

Project Location: DURANGO - EDDY

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 01 (H230850-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/23/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK
Project Number: KH237009

Project Location: DURANGO - EDDY

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: N - SW02 (H230850-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/23/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK
Project Number: KH237009

Project Location: DURANGO - EDDY

ma/ka

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - SW02 (H230850-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/23/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

Analyzed By: 14

Cardinal Laboratories *=Accredited Analyte

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Celey & Freene



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK
Project Number: KH237009
Project Location: DURANGO - EDDY

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 (H230850-08)

Analyte Result Reporting Limit Analyzed Method Blank BS Benzene* <0.050 0.050 02/24/2023 ND 2.08 Toluene* <0.050 0.050 02/24/2023 ND 2.01 Ethylbenzene* <0.050 0.050 02/24/2023 ND 1.94	% Recovery 104 100 97.2	True Value QC 2.00 2.00	RPD 1.39	Qualifier
Toluene* <0.050 0.050 02/24/2023 ND 2.01	100		1.39	
• •		2.00		
Ethylbenzene* <0.050 0.050 02/24/2023 ND 1.94	97.2		1.79	
		2.00	1.73	
Total Xylenes* <0.150 0.150 02/24/2023 ND 5.95	99.1	6.00	1.52	
Total BTEX <0.300 0.300 02/24/2023 ND				
Surrogate: 4-Bromofluorobenzene (PID 102 % 71.5-134				
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 02/23/2023 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 02/24/2023 ND 237	118	200	19.7	
DRO >C10-C28* <10.0 10.0 02/24/2023 ND 218	109	200	17.1	
EXT DRO >C28-C36 <10.0 10.0 02/24/2023 ND				
Surrogate: 1-Chlorooctane 92.4 % 48.2-134				
Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148				

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Celey D. Kreine



Analytical Results For:

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

Received: 02/23/2023 Reported: 02/27/2023

Project Name: MUCHO LUCK Project Number: KH237009

DURANGO - EDDY Project Location:

Sampling Date: 02/23/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 (H230850-09)

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	02/24/2023	ND	2.08	104	2.00	1.39	
Toluene*	<0.050	0.050	02/24/2023	ND	2.01	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.94	97.2	2.00	1.73	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.95	99.1	6.00	1.52	
Total BTEX	<0.300	0.300	02/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2023	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	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keine



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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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 FAX (5/5) 393-24/6	X (5/5) 393-24/	٥		ı	ı		ı	L	ı	ı					١						3		1			
Company Name:	Terracon											8		10					ANA	ANALYSIS		KEWUESI	S	١	1	-	_
Project Manager:	Project Manager: Joseph Guesnier								9.	P.O.	#																
Address: 4518 V	4518 W. Perice Street								C	ğ	Company:	÷:	0	uxana	Se Se							_					\$(50)
City: Carlsbad		State: NM Z	Zip:	88220	220				Þ	2	A	Attn: Ambis	8	& Grove	S												
Phone #: 8065077057	7057	Fax #:							A	dr	Address:																
	KH Z37069	Project Owner:	0	5	O	uxama	8	6	C	City:								_				_					
me:	Mucho Luck	ck					0		S	State:			Zip:	Þ:													
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Sampler Name:	굡'								T	Fax #:	"	1	1			od4		802			_						_
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Lab I.D.	Sample I.D.		G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		DATE	TIME	Chloride (EPA M		BTEX (EPA Met					1				
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99	FS02		0	-		1	0				8	0	-	Ł	11:40	5	7	8									
PLEASE NOTE: Liability and analyses. All claims includin service. In no event shall Ca	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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	lient's exclusive remedy for any roause whatsoever shall be de equental damages, including w	claim emed without I	arising waived imitati	wheth unless	ner bar s mad siness	sed in le in w	contra riting a	ct or t	ort, sh ceived of us	all be by Co e, or k	limite ardina oss of	d to the within	he amount paid b in 30 days after c s incurred by clie	y the client for the ompletion of the nt, its subsidiarie	ne applica	ble										
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Relinquished By:		Date:	Received By:	eiv	ed	¥.								4	REMARKS:		sph.gues stin.worle	joesph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com	acon.cor;	n; travis. michael.a	s.case	ns@t	егтас	on.con	3.5		
Delivered By: (Circle One)		Observed Temp. °C	3	. (0 (0	Sample Condition Cool Intact	ole C	Cond	litio	1	ی د	슬픈	ECKED I	BY:	Turnaround Time: Thermometer ID #1	d Tim	ವೆ	Standard Rush		_ c B	Bacteria (only Cool Intact □Yes □ Yes	(only act Yes) Sa	bservi	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes	ငိ	
Sampler - UPS - Bus - Other:		Corrected lemp. "C	_	, .		Lies Lies	es	L	es	f	X	X				į	5.50				5	Z		orrect	Corrected Temp. °C	ů	_

APPENDIX E – Initial C-141

Received by OCD: 3/15/2023 8:11:03 PM

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

Contact Name Amber Groves

Responsible Party Frontier Field Services, LLC

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page 46 of 50

Incident ID	nAPP2304838742
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 221115

Contact Telephone 575-703-7992

Contact ema	il agroves@	durangomidstream	.com	Incident 7	# (assigned by OC	CD)
Contact mail	ling address	47 Conoco Rd, M	aliamar NM 8826			
			arjaniar 1417 0020			
			Location	of Release S	Source	
Latitude	32.88	3949		I ongitude	-104.2584	
	32.00	55 15	(NAD 83 in dec	imal degrees to 5 dec		
Site Name 4"	Mucho Luc	ck #2		Site Type	Pipeline	
Date Release	Discovered	2/15/2023		API# (if ap	*	
				10 4		
Unit Letter	Section	Township	Range	Cou	nty	
P	27	16S	27E	Ed	dy	
urface Owner	r: State	☐ Federal ☐ Tri	ibal Private (A	lame:)
			Nature and	Volume of	Release	
Crude Oil	Materia	Volume Released	that apply and attach of	calculations or specific		the volumes provided below) covered (bbls)
Produced		Volume Released				covered (bbls)
			on of dissolved ch	1 .11		. ,
		produced water >		noride in the	☐ Yes ☐	No
Condensat	te	Volume Released		-	Volume Red	covered (bbls)
Natural G	as	Volume Released	l (Mcf) 68.95		Volume Rec	covered (Mcf)
Other (des	scribe)	Volume/Weight I	Released (provide	units)	Volume/We	eight Recovered (provide units)
Cause of Rele		1				
External & in	ternal corro	sion. Release occur	rred during active	remediation of n	APP22312503:	50

Reserved by OCD: 3/15/2023 8:11:03 PM tate of New Mexico
Page 2
Oil Conservation Division

	Page 47 of 3
Incident ID	nAPP2304838742
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
 □ Released materials hat □ All free liquids and released. 	ase has been stopped. Is been secured to protect human health and the environment. It we been contained via the use of berms or dikes, absorbent pads, or other containment devices. It is coverable materials have been removed and managed appropriately. If above have not been undertaken, explain why:
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investigated	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Amb	er Groves Title: <u>Sr. Environmental Specialist</u>
Signature:	Date: <u>2/17/2023</u>
email: <u>agroves@duran</u>	gomidstream.com Telephone: (575)703-7992
OCD Only	
Received by:	Date:



Gas Volume Release Report

	Gas Release Vo	lume Calcula	ator				
Date:			2/15/2	023			
Site or Line Name:		Dagger D	raw Mucho	Luck 4" St	eel Line		
Area of Hole in Pipe:	0.25			square in			
Absolute Pressure:	54.7	psia	- absolute pres	ssure (psia = ı	psig gauge pre	essure + 14.7)	
Duration of Release:	60.00		· ·	minute			
Actual Temperature:	55			Degrees	s F		
Representative Gas Analysis		Please attach	or email a rep	resentative g	as analysis		
Constants	12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Temperature at standard conditions:	60	Deg. F					
Pressure at standard conditions:	14.7	PSIA					
Volume of Gas - ACF	18.35	MACF					
Volume of Gas - SCF	68.95	MSCF					

Notes	
Entered by user	
Calculated Value	
Constant	

APPENDIX F – 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 (PKH237009).

Additional Scope Limitations

The development of this Amended RAP is based upon 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.

Released to Imaging: 7/26/2023 3:43:04 PM

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

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 197703

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	197703
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created		Condition Date
rham	We have received your closure report and final C-141 for Incident #NAPP2304838742 4" MUCHO LUCK #2, thank you. This closure is approved.	7/26/2023