

M-28 LINE LEAK

Remediation Action Plan

NMOCD Incident No. nAPP2319359955
UL "O", Sec. 32, T18S, R30E
32.697537, -103.99317
Eddy County, New Mexico

September 26, 2024



PREPARED ON BEHALF OF

DCP Operating Company, LP
6900 E. Layton Ave,
Suite 900
Denver, CO 80237



PREPARED BY

Tasman, Inc.
2620 W. Marland Blvd.
Hobbs, NM 88240



September 26, 2024

DCP Operating Company, LP
6900 E. Layton Ave., Suite 900
Denver, Colorado 80237

Attn: Mr. Steve Weathers
Email: stephen.weathers@p66.com

Re: Remediation Action Plan
M-28 Line Leak
UL "O", Section 32, Township 18 South, Range 30 East
Eddy County, New Mexico
NMOCD Incident No. nAPP2319359955
Tasman Project No. 6062

Dear Mr. Weathers,

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the above referenced site. Site assessment activities were executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning the delineation of release of produced water to the environment.

Tasman conducted initial assessment activities, identifying an approximately 4,600 square foot area that had been impacted by the release and an approximate 12,700 square foot overspray area. The release area was then vertically, and horizontally delineated. Based on laboratory analytical results from soil samples collected during assessment sampling activities, impacted soil within the release area has been or will be delineated to the applicable NMOCD Action Level. Additional project details are provided in the attached Remediation Action Plan.

Tasman appreciates the opportunity to provide environmental services to DCP Operating Company, LP. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Sincerely,
Tasman, Inc.

Brett Dennis
Project Manager
bdennis@tasman-geo.com

Kyle Norman
SW Regional Manager
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TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Site Description	1
1.2 Release Detail and Initial Response	1
2.0 SITE CHARACTERISTICS	1
2.1 Depth to Groundwater	1
2.2 Karst Potential & Subsurface Mines	2
2.3 Distance to Nearest Potable Water Well	2
2.4 Distance to Nearest Surface Water	2
2.5 100-year Floodplain	2
2.6 Residence, School, Hospital, or Institution	2
2.7 Archaeological & Biological Survey/Review	3
2.8 Proximity to Sensitive Receptors and Site Characteristics Summary	3
3.0 REMEDIATION ACTION LEVELS	3
3.1 Reclamation Levels	4
4.0 RELEASE ASSESSMENT	4
4.1 Soil Sampling Procedures for Laboratory Analysis	5
4.2 Soil Analytical Methods	5
4.3 Release Area Assessment Data Evaluation	5
5.0 PROPOSED REMEDIAL ACTIONS	6
6.0 PROPOSED RECLAMATION AND REVEGETATION	6

Figures

- Figure 1 – Site Location & Groundwater Map
- Figure 2 – Karst Potential & Subsurface Mine Map
- Figure 3 – Surface Water Map
- Figure 4 – FEMA FIRMetete Map
- Figure 5 – Excavation Overview Map

Tables

- Table 1 – Soil Sample Analytical Summary – Delineation Soil Samples

Appendix A – Initial Form C-141 and NMOCD Notifications

Appendix B – Depth to Groundwater Information

Appendix C – Photographic Log

Appendix D – Certified Laboratory Analytical Reports

1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the M-28 Line Leak (site) on behalf of DCP Operating Company, LP (DCP), documenting the results of field activities conducted in response to a release of produced water to environmental media.

1.1 Site Description

The site is located in Unit Letter "O" of Section 32, Township 18 South, Range 30 East in Eddy County, New Mexico. The release occurred from the M-28 natural gas pipeline. The release occurred on New Mexico State Land Office (NMSLO) property.

1.2 Release Detail and Initial Response

On July 11, 2023, the M-28 pipeline was discovered by DCP personnel to have failed due to a blow out. On July 19, 2023, DCP provided notice of release to the NMOCD portal and to the NMSLO by email on October 31, 2023. The release resulted in the loss of approximately 9 barrels (bbls) of produced water to the surrounding environmental media. DCP personnel shut in the pipeline to isolate the release. The line was later repaired and returned to service. No produced water was recovered.

A copy of the NMOCD and NMSLO notifications are provided in Appendix A.

2.0 SITE CHARACTERISTICS

2.1 Depth to Groundwater

Tasman reviewed available depth to groundwater information available through the New Mexico Office of the State Engineer (NMOSE) and the United States Geologic Survey (USGS) for registered water wells within a half-mile radius of the site. The well with available groundwater level data is located 0.10 miles northwest of the site, identified as USGS 324154103593301. Depth to groundwater was measured at 161 feet below ground surface (ft bgs) in 1971.

The Site Location & Groundwater Map included as Figure 1 illustrates the location of the registered water wells within the vicinity of the site, and a summary of depth to groundwater information is provided as Appendix B.

2.2 Karst Potential & Subsurface Mines

Tasman utilized the publicly available karst potential map published by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO) to determine the potential for encountering karst formations beneath the site. Review of the BLM CFO karst potential map indicates that the site is not located in an area of high potential to encounter karstic features.

Tasman utilized the USGS Mineral Resources database to determine that there are no subsurface mines beneath or in the vicinity of the site.

Areas of high/critical karst and subsurface mine locations are illustrated on Figure 2.

2.3 Distance to Nearest Potable Water Well

The nearest potable water well is the well gauged on April 8, 1971, that is assumed to be USGS 324154103593301. The well is located 0.46 miles from the site. The location of USGS 324154103593301 is shown on the attached Figure 1.

2.4 Distance to Nearest Surface Water

Tasman reviewed aerial imagery and the National Wetland Inventory Map, published by the U.S. Fish and Wildlife Service, for wetlands and surface water in the vicinity of the site. The nearest wetland, freshwater emergent wetland, is located approximately 0.19 miles from the site. The nearest significant surface water was identified as Hackberry Lake, located 6.39 miles from the site. The location of the nearest surface water body can be seen on Figures 1 and 3.

2.5 100-year Floodplain

Review of flood map data published by the Federal Emergency Management Agency (FEMA) indicates the site is not located within a 100-year floodplain. A copy of the FEMA FIRMete Map can be found attached as Figure 4.

2.6 Residence, School, Hospital, or Institution

Review of aerial imagery did not show that the site is within 300 feet of an occupied permanent residence, school, hospital, or institution.

2.7 Archaeological & Biological Survey/Review

On September 5, 2023, a third party conducted a review of the New Mexico Cultural Resource Information System (NMCRIIS) as Activity Number 153815 and performed field investigation on September 8, 2023. Neither desktop or field investigation showed evidence of cultural resources at the site. A copy of the NMCRIIS Investigation Abstract Form can be provided upon request.

On September 18, 2024, the Center for Environmental Health Monitoring and Management (CEHMM) was consulted on potential habitat for listed endangered species. The site has been identified as suitable habitat for the dunes sagebrush lizard.

2.8 Proximity to Sensitive Receptors and Site Characteristics Summary

The table below denotes if the site is located within the minimum allowable distance from a sensitive receptor, as defined in New Mexico Administrative Code (NMAC) 19.15.29.

Site Characteristics Summary		
Approximate depth to groundwater:	161 ft bgs	
Within an area of high karst potential?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of any continuously flowing of significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 500 ft. of a spring or private, domestic fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 1,000 ft. of any fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the incorporated municipal boundaries or within a municipal well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within an unstable area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

3.0 REMEDIATION ACTION LEVELS

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and proximity to sensitive receptors as established in NMAC 19.15.29. Based on site characteristics described in Section 2.0, groundwater beneath the site is believed to be greater than 100 ft bgs. A soil bore will be advanced at the site to a depth of at least 105 ft bgs. After 48 hours, Tasman will measure the soil bore for presence of water. Assuming depth to groundwater will be greater than 100 feet, the NMOCD Action Levels for a site with a depth to groundwater greater than 100 feet bgs were utilized; these Action Levels are as follows:

M-28 Line Leak – nAPP2319359955
Remediation Action Plan



Constituent	Remediation Action Level
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

TPH – total petroleum hydrocarbons

DRO – diesel range organics

BTEX – benzene, toluene, ethylbenzene, total xylenes

GRO – gasoline range organics

MRO – motor/lube oil range organics

mg/kg – milligrams per kilogram

Should groundwater be encountered shallower than stated above. A letter informing the NMOCD and NMSLO will be provided prior to confirmation sampling, as a notice of revised Remediation Levels for the site.

3.1 Reclamation Levels

NMAC 19.15.29.13(D) codifies, and the *Procedures for Implementation of the Spill Rule*, dated September 6, 2019, clarifies that the top four feet of the remediated area should be non-waste containing. Therefore, the NMOCD Reclamation Standards are applied to the top four feet of any area impacted by a release that is not located within an active production facility. NMOCD Reclamation Standards are as follows:

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

4.0 RELEASE ASSESSMENT

On October 17 and 18, 2023, Tasman was retained by DCP to respond to a release of produced water at the site. Initial observations indicated a release area of approximately 4,600 square feet (ft²), with an overspray area approximately 12,700 ft². A photographic log of the release area is included as Appendix C. Nineteen soil borings (HA-1 through HA-19) were advanced by hand auger to depths ranging from 4 to 8 ft bgs.

On February 13, 2024, Tasman advanced three delineation trenches using machinal equipment, referred to as verticals (V-1 through V-3), to delineate the release area. Verticals were advanced to a depth of 8 ft bgs. Additionally, HA-5 was further delineated to a depth of 12 ft bgs.

The attached Figure 5 illustrates the observed release and location of soil sample locations.

4.1 Soil Sampling Procedures for Laboratory Analysis

The collection of soil samples for laboratory analysis was conducted in accordance with NMOCD criteria and generally approved industry standards. Collected soil samples were placed in laboratory provided containers, properly labeled, and preserved on ice pending delivery under a chain of custody form to Cardinal Laboratory in Hobbs, New Mexico.

4.2 Soil Analytical Methods

Each selected soil sample was analyzed using Environmental Protection Agency (EPA) methods or other NMOCD-approved methods. Laboratory analytical methods are as follows:

- Chloride – EPA Method SM4500.
- Total Petroleum Hydrocarbons (TPH) – gasoline, diesel, and motor/lube oil range organics (GRO+DRO+MRO) – EPA Method 8015M Extended.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) – EPA Method 8021B.

4.3 Release Area Assessment Data Evaluation

Concentrations of benzene and total BTEX were not detected above NMOCD Action Levels throughout.

Concentrations of total TPH were detected above Reclamation Levels in HA-12 at the surface ft bgs (199 milligram per kilogram [mg/kg]). The remaining samples exhibited concentrations ranging from 20.2 mg/kg to 28.2 mg/kg.

Concentrations of chlorides were detected above Reclamation Levels in several soil samples (HA-1, HA-5, HA-8 through HA-10, HA-12, HA-13 and HA-18), with concentrations ranging from 704 mg/kg to 14,200 mg/kg. The remaining samples exhibited concentrations ranging from 16 mg/kg to 2,560 mg/kg.

Analytical results are summarized on Table 1 and laboratory analytical results are included as Appendix D.

5.0 PROPOSED REMEDIAL ACTIONS

Tasman proposes to remediate the site using physical removal of soil within the delineated area of the release surrounding HA-5 and HA-10 to a depth of 6 ft bgs, HA-9 to a depth of 4 ft bgs and HA-11 to a depth of 5 ft bgs. Additionally, the areas surrounding HA-8, HA-12, HA-13 and HA-18 will be scraped to a depth of 1 to 2 ft bgs. Excavated soil will be staged on-site atop a polyethylene liner pending transportation under manifest to an NMOCD approved disposal facility.

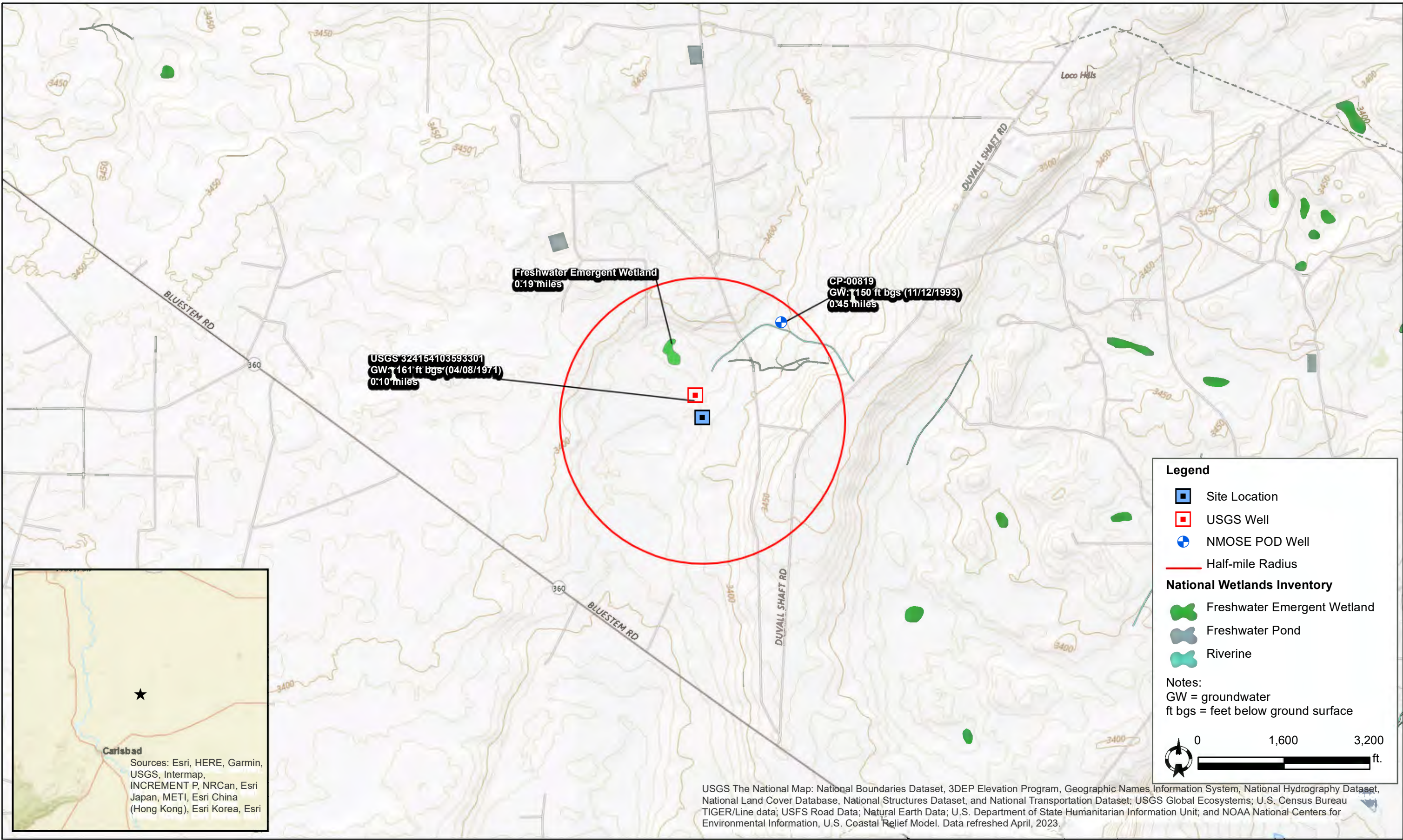
Once field data indicates that the release area has been remediated to NMOCD requirements established in Section 3.0, Tasman will collect five-point confirmation samples from the base and sidewalls of the excavation. The collected confirmation soil samples will represent an area no greater than 400 ft². Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

6.0 PROPOSED RECLAMATION AND REVEGETATION

Upon receipt of confirmation samples that indicate remediation objectives have been met, areas affected by the release and associated remediation activities will be restored to the condition which existed prior to the release to the maximum extent possible. Excavated areas will be backfilled with non-impacted “like” material and contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The NMSLO (surface owner) will be consulted for their preference in native seed mix. Upon NMSLO approval, Tasman will seed the area using the approved seed mixture during the next favorable growing season. The seed mix will be broadcast at a rate two times the suggested amount to ensure the greatest likelihood for sufficient germination. The seed will be “set” using mechanical means (e.g., screen or disc harrow) following the seeding event.

Figures



DATE:	September 2024
DESIGNED BY:	L. Flores
DRAWN BY:	L. Flores

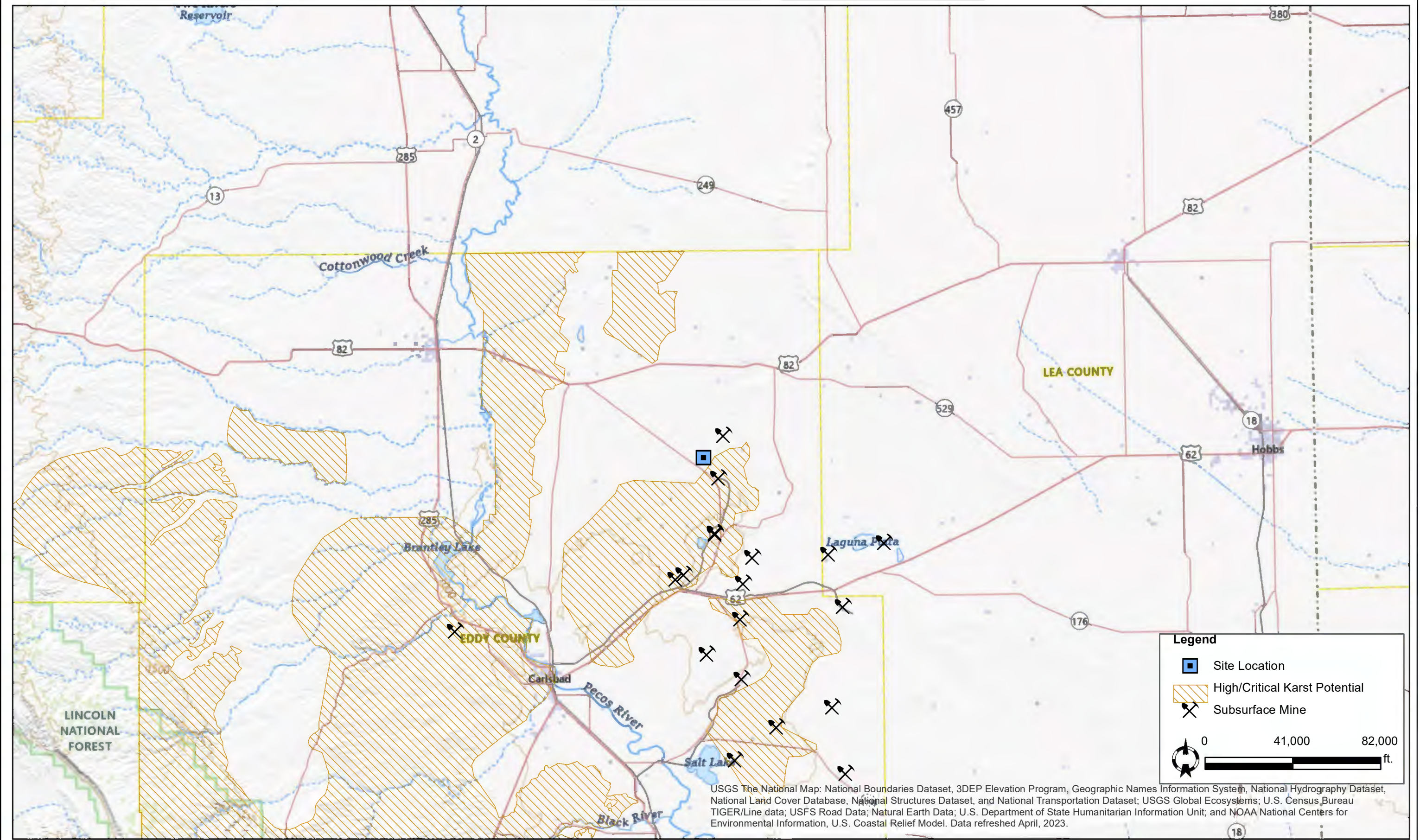


Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Operating Company, LP
M-28 Line Leak - nAPP2319359955
UL "O", Sec. 32, T18S, R30E
Eddy County, New Mexico

Site Location & Groundwater
Map

Figure
1



DATE:	October 2023
DESIGNED BY:	B. Dennis
DRAWN BY:	B. Dennis

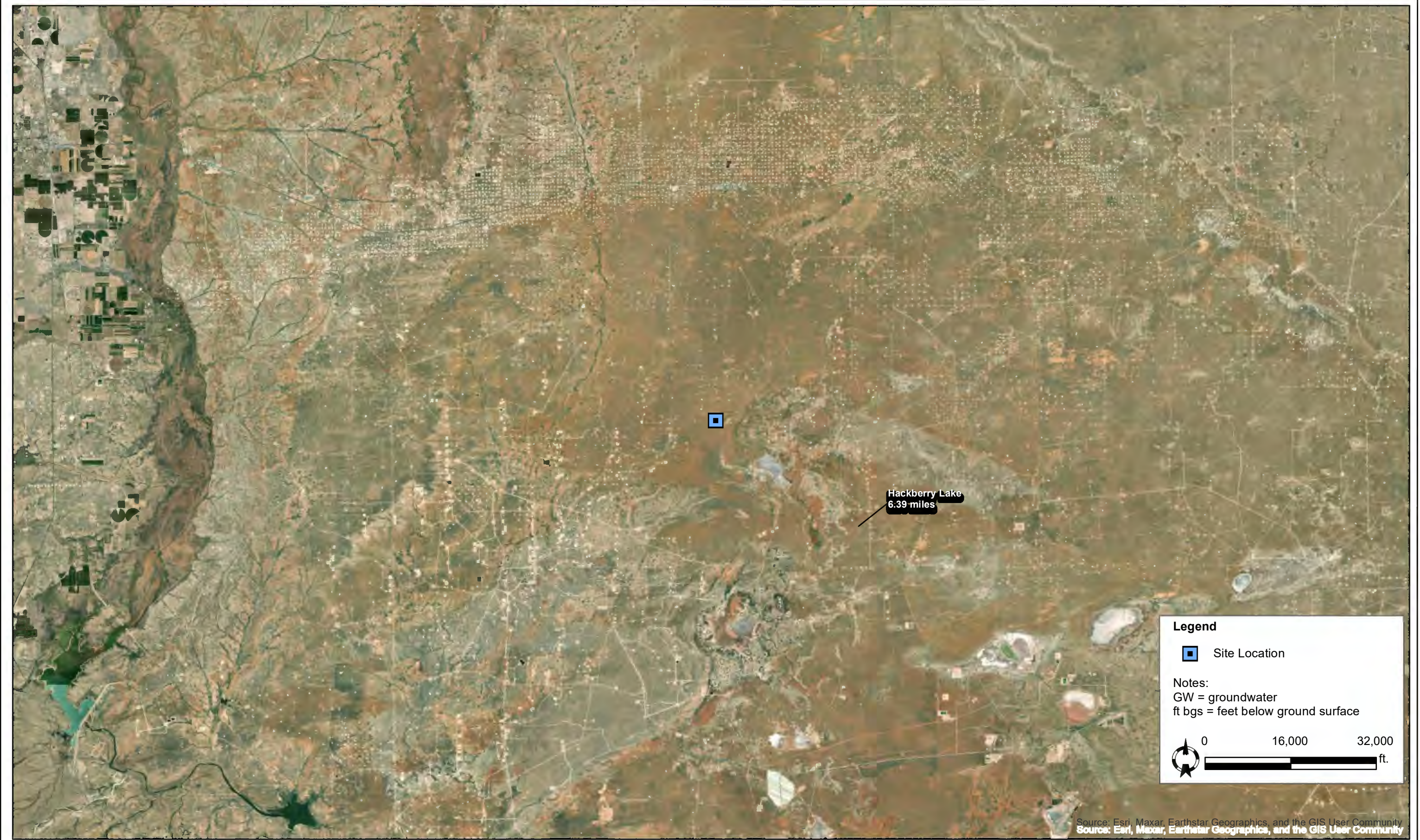


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Karst Potential & Subsurface
Mine Map

Figure
2



DATE:	September 2024
DESIGNED BY:	L. Flores
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Surface Water Map

Figure
3

National Flood Hazard Layer FIRMMette



103°59'54"W 32°42'6"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Released to Imaging: 11/1/2024 9:33:58 AM

Basemap Imagery Source: USGS National Map 2023

Legend

Figure 4

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/19/2024 at 11:30 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



DATE:	March 2023
DESIGNED BY:	C. Flores, K. Stark
DRAWN BY:	L. Flores



Tasman, Inc.
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DCP Operating Company, LP
M-28 Line Leak - nAPP2319359955
UL "O", Sec. 32, T18S, R30E
Eddy County, New Mexico

Delineation Overview Map

Figure 5

Table

TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES

DCP Operating Company

M-28 Line Leak

NMOCD Incident No. nAPP2319359955

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
HA-1	0-0.5'	10/17/2023	In-Situ	---	149	---	---	---	---	---	---	---
	1'		In-Situ	---	49	---	---	---	---	---	---	
	2'		In-Situ	---	151	---	---	---	---	---	---	
	3'		In-Situ	---	158	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4'		In-Situ	0.70	151	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-2	0-0.5'	10/17/2023	In-Situ	---	148	---	---	---	---	---	---	---
	1'		In-Situ	---	152	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	2'		In-Situ	---	146	---	---	---	---	---	---	---
	3'		In-Situ	---	145	---	---	---	---	---	---	---
	4'		In-Situ	1.50	147	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-3	0-0.5'	10/18/2023	In-Situ	---	159	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	1'		In-Situ	---	148	---	---	---	---	---	---	---
	2'		In-Situ	---	147	---	---	---	---	---	---	---
	3'		In-Situ	---	149	---	---	---	---	---	---	---
	4'		In-Situ	---	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-4	0-0.5'	10/17/2023	In-Situ	---	149	---	---	---	---	---	---	---
	1'		In-Situ	---	149	---	---	---	---	---	---	---
	2'		In-Situ	---	210	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	3'		In-Situ	---	146	---	---	---	---	---	---	---
	4'		In-Situ	0.30	297	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	288
HA-5	0-0.5'	10/17/2023	In-Situ	---	602	---	---	---	---	---	---	---
	1'		In-Situ	---	347	---	---	---	---	---	---	---
	2'		In-Situ	---	779	---	---	---	---	---	---	---
	3'		In-Situ	---	1,177	---	---	---	---	---	---	---
	4'		In-Situ	---	1,847	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	1,600
	5'		In-Situ	---	752	---	---	---	---	---	---	---
	6'		In-Situ	---	147	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	192
	7'		In-Situ	---	149	---	---	---	---	---	---	---
	8'	2/13/2024	In-Situ	---	167	<0.0500	<0.300	<10.0	114	27.2	138	272
	10'		In-Situ	1.0	298	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
	12'		In-Situ	1.4	149	<0.0500	<0.300	<10.0	36.0	<10.0	36.0	256
HA-6	0-0.5'	10/17/2023	In-Situ	---	306	---	---	---	---	---	---	---
	1'		In-Situ	---	312	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	320
	2'		In-Situ	---	146	---	---	---	---	---	---	---
	3'		In-Situ	---	146	---	---	---	---	---	---	---
	4'		In-Situ	0.20	155	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
HA-7	0-0.5'	10/18/2023	In-Situ	---	149	---	---	---	---	---	---	---
	1'		In-Situ	---	148	---	---	---	---	---	---	---
	2'		In-Situ	---	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	240
	3'		In-Situ	---	149	---	---	---	---	---	---	---
	4'		In-Situ	---	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
HA-8	0-0.5'	10/17/2023	In-Situ	0.7	2,085	<0.0500	<0.300	<10.0	70.0	10.4	80.4	1,120
	1'		In-Situ	0.5	1,216	---	---	---	---	---	---	---
	2'		In-Situ	0.7	765	---	---	---	---	---	---	---
	3'		In-Situ	4.0	604	---	---	---	---	---	---	---
	4'		In-Situ	3.7	102	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	176
HA-9	0-0.5'	10/17/2023	In-Situ	---	574	---	---	---	---	---	---	---
	1'		In-Situ	---	436	---	---	---	---	---	---	---
	2'		In-Situ	---	3,679	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	1,300
	3'		In-Situ	---	153	---	---	---	---	---	---	---
	4'		In-Situ	0.90	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
HA-10	0-0.5'	10/18/2023	In-Situ	---	738	---	---	---	---	---	---	---
	1'		In-Situ	---	1,466	---	---	---	---	---	---	---
	2'		In-Situ	---	946	---	---	---	---	---	---	---
	3'		In-Situ	---	2,288	---	---	---	---	---	---	---
	4'		In-Situ	---	9,579	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	14,200
	5'		In-Situ	---	3,646	---	---	---	---	---	---	---
	6'		In-Situ	---	437	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	352
	7'		In-Situ	---	149	---	---	---	---	---	---	---
HA-11	0-0.5'	10/18/2023	In-Situ	---	303	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	288
	1'		In-Situ	---	160	---	---	---	---	---	---	---
	1'		In-Situ	---	151	---	---	---	---	---	---	---
	2'		In-Situ	---	302	---	---	---	---	---	---	---
	3'		In-Situ	---	1,307	---	---	---	---	---	---	---
	4'		In-Situ	---	873	---	---	---	---	---	---	---
	5'		In-Situ	---	2,309	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	2,560
	6'		In-Situ	---	298	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	160
	7'		In-Situ	---	158	---	---	---	---	---	---	---
8'	In-Situ	---	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0		
NMOCD Reclamation Standards ⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards ⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000	N/A		2,500	20,000

TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
DCP Operating Company
M-28 Line Leak
NMOCD Incident No. nAPP2319359955

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
HA-12	0-0.5'	10/17/2023	In-Situ	---	3,184	<0.0500	<0.300	<10.0	138	61.2	199	1,250
	1'		In-Situ	---	315	---	---	---	---	---	---	
	2'		In-Situ	---	634	---	---	---	---	---	---	
	3'		In-Situ	---	148	---	---	---	---	---	---	
	4'		In-Situ	---	142	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
HA-13	0-0.5'	10/17/2023	In-Situ	---	729	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	704
	1'		In-Situ	---	677	---	---	---	---	---	---	
	2'		In-Situ	---	592	---	---	---	---	---	---	
	3'		In-Situ	---	152	---	---	---	---	---	---	
	4'		In-Situ	0.80	160	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
HA-14	0-0.5'	10/18/2023	In-Situ	---	592	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	400
	1'		In-Situ	---	586	---	---	---	---	---	---	
	2'		In-Situ	---	460	---	---	---	---	---	---	
	3'		In-Situ	---	152	---	---	---	---	---	---	
	4'		In-Situ	8.80	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
HA-15	0-0.5'	10/18/2023	In-Situ	---	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	1'		In-Situ	---	149	---	---	---	---	---	---	
	2'		In-Situ	---	147	---	---	---	---	---	---	
	3'		In-Situ	---	145	---	---	---	---	---	---	
	4'		In-Situ	---	155	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-16	0-0.5'	10/17/2023	In-Situ	---	305	<0.0500	<0.300	<10.0	28.2	<10.0	28.2	192
	1'		In-Situ	---	237	---	---	---	---	---	---	
	2'		In-Situ	---	207	---	---	---	---	---	---	
	3'		In-Situ	---	149	---	---	---	---	---	---	
	4'		In-Situ	1.90	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
HA-17	0-0.5'	10/18/2023	In-Situ	---	150	---	---	---	---	---	---	
	1'		In-Situ	---	153	---	---	---	---	---	---	
	2'		In-Situ	---	150	---	---	---	---	---	---	
	3'		In-Situ	---	155	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4'		In-Situ	---	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-18	0-0.5'	10/18/2023	In-Situ	---	2,113	<0.0500	<0.300	<10.0	20.2	<10.0	20.2	3,080
	1'		In-Situ	---	877	---	---	---	---	---	---	
	2'		In-Situ	---	461	---	---	---	---	---	---	
	3'		In-Situ	---	1,252	---	---	---	---	---	---	
	4'		In-Situ	---	1,404	---	---	---	---	---	---	
	5'		In-Situ	---	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	192
	6'		In-Situ	---	293	---	---	---	---	---	---	
	7'		In-Situ	---	151	---	---	---	---	---	---	
	8'		In-Situ	---	304	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	400
HA-19	0-0.5'	10/18/2023	In-Situ	---	148	---	---	---	---	---	---	
	1'		In-Situ	---	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	2'		In-Situ	---	149	---	---	---	---	---	---	
	3'		In-Situ	---	148	---	---	---	---	---	---	
	4'		In-Situ	---	152	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-1	2'	2/13/2024	In-Situ	0.50	150	---	---	---	---	---	---	
	4'		In-Situ	1.2	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	6'		In-Situ	0.5	151	---	---	---	---	---	---	
	8'		In-Situ	0.4	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-2	2'	2/13/2024	In-Situ	1.6	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	144
	4'		In-Situ	1.2	154	---	---	---	---	---	---	
	6'		In-Situ	0.3	152	---	---	---	---	---	---	
	8'		In-Situ	0.0	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
V-3	2'	2/13/2024	In-Situ	0.0	152	---	---	---	---	---	---	
	4'		In-Situ	1.1	212	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
	6'		In-Situ	0.4	211	---	---	---	---	---	---	
	8'		In-Situ	0.4	309	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	160
NMOCD Reclamation Standards ⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards ⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000			2,500	20,000

Notes:

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
 2. TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
 3. Chloride - Analyzed by EPA method SM4500
 4. New Mexico Administrative Code (NMAC) 19.15.29.13(D) - Restoration, Reclamation, and Re-vegetation (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).
 5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- Bold** values denote concentrations above laboratory RDL
Red values denote concentrations above NMOCD Action Levels

BGS = Below ground surface
 GRO = Gasoline range organics
 DRO = Diesel range organics
 MRO = Motor/lube oil range organics
 PID = Photoionization detector
 --- = Sample was not analyzed for this analyte
 <RDL = The analyte was not detected above the laboratory reported detection limit (RDL)
 N/A = Not applicable

Appendix A – Initial Form C-141

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Release (NOR) Application

Submission Information

Submission ID:	238952	Districts:	Artesia
Operator:	[36785] DCP OPERATING COMPANY, LP	Counties:	Eddy
Description:	DCP OPERATING COMPANY, LP [36785] , M-28 LINE , nAPP2319359955		
Status:	APPROVED		
Status Date:	07/12/2023		
References (1):	nAPP2319359955		

Forms

This application type does not have attachments.

Questions

Location of Release Source

Please answer all the questions in this group.

Site Name	M-28 Line
Date Release Discovered	07/11/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Blow Out
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	Not answered.
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Blow Out Pipeline (Any) Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mct values reported)

No, according to supplied volumes this does not appear to be a "gas only" report.

Was this a major release as defined by Subsection A of 19.15.29.7 NMAC

No

Reasons why this would be considered a submission for a notification of a major

Unavailable.

release

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped

True

The impacted area has been secured to protect human health and the environment

True

Released materials have been contained via the use of berms or dikes, absorbent

True

pads, or other containment devices

All free liquids and recoverable materials have been removed and managed

True

appropriately

If all the actions described above have not been undertaken, explain why

Not answered.

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 su

remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

Acknowledgments

I acknowledge that I am authorized to submit notification of a release on behalf of my operator.

I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to

NMAC 19.15.29.

I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and

corrective action", pursuant to NMAC 19.15.29.

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.

I acknowledge the fact that 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.

I acknowledge the fact that, 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.

Comments

No comments found for this submission.

Conditions

Summary:

known (7/12/2023). When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Reasons

No reasons found for this submission.

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2319359955
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party DCP Operating Company, LP	OGRID 36785
Contact Name Raymond Smalts	Contact Telephone 575-234-6405
Contact email Raymond.a.smalts@p66.com	Incident # (assigned by OCD)
Contact mailing address 5301 Sierra Vista Drive	Carlsbad, NM 88220

Location of Release Source

Latitude 32.697537 Longitude -103.99317
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: M-38 Line	Site Type: Blow Out
Date Release Discovered: 7/12/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
O	32	18S	30E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 9 bbls	Volume Recovered (bbls): 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
On July 11, 2023, DCP Ops discovered a leak on the M-28 pipeline due to internal corrosion of the pipeline caused the pipeline to blow out. DCP Ops has shut in the pipeline and scheduled pipeline to be repaired

Form C-141

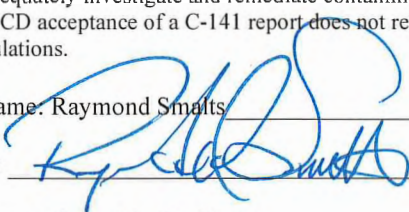
State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2319359955
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Raymond Smalts	Title: Sr. Environmental Engineer
Signature: 	Date: 7/19/2023
email: Raymond.a.smalts@p66.com	Telephone: 575-234-6405
OCD Only	
Received by: Shelly Wells	Date: 7/19/2023

Barrels Released Calculation

Release Area

$$\frac{\text{Square Footage}}{27} = \frac{4693}{27} \times \text{Height (ft)} = \frac{0.25}{27} = 43.4537 \text{ feet}^3$$

$$43.453704 \times 0.1781 = 7.7391046 \text{ barrels released}$$

$$\text{Total Volume Released (bbls): } 8.6$$

Overspray Area

$$\frac{\text{Square Footage}}{27} = \frac{12766}{27} \times \text{Height (ft)} = \frac{0.01}{27} = 4.728148$$

$$4.728148 \times 0.1781 = 0.842083 \text{ barrels released}$$

From: [Kyle Norman](#)
To: eco@slo.state.nm.us
Cc: [Smalts, Raymond A](#); [Case, Nicholas L](#); [Daly, Stacey](#); [Weathers, Stephen](#); [Griffin, Becky R](#); [Brett Dennis](#); [Laura Flores](#)
Subject: 6062_M-28 Line Leak (7.11.2023)_nAPP2319359955
Date: Tuesday, October 31, 2023 7:44:00 AM
Attachments: [image001.png](#)
[Initial C-141 nAPP2319359955 M-28 Line Leak \(Signed\).pdf](#)

Good morning,

Please find attached the Initial C-141 for the M-28 Line Leak nAPP2319359955, an ARCH survey has been conducted on site and it was negative.

Please let me know if you have any questions.

Thank you

Kyle Norman
Regional Project Manager

Tasman, Inc.
2620 W. Marland Blvd.
Hobbs, NM 88240
C: 575-318-5017
knorman@tasman-geo.com
www.tasman-geo.com



Appendix B – Depth to Groundwater Information



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

National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324154103593301

Minimum number of levels = 1

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

USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico

Latitude 32°41'54", Longitude 103°59'33" NAD27

Land-surface elevation 3,374 feet above NAVD88

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

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

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-03-08			D62610		3208.02	NGVD29	1	Z			A
1968-03-08			D62611		3209.55	NAVD88	1	Z			A
1968-03-08			D72019	164.45			1	Z			A
1971-04-08			D62610		3211.19	NGVD29	1	Z			A
1971-04-08			D62611		3212.72	NAVD88	1	Z			A
1971-04-08			D72019	161.28			1	Z			A

Explanation

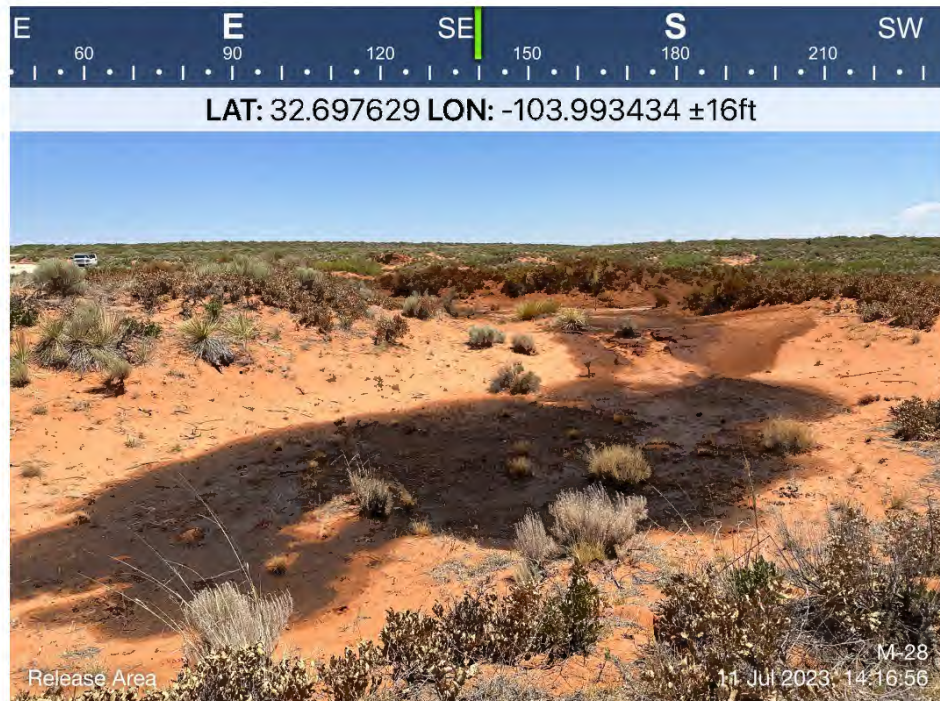
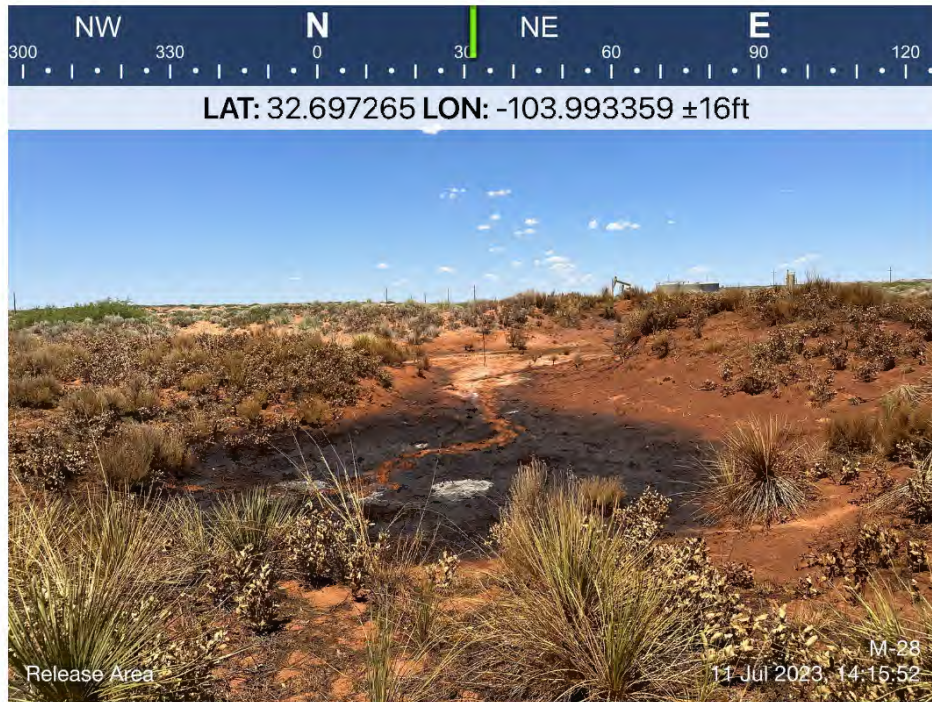
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

Appendix C – Photographic Log

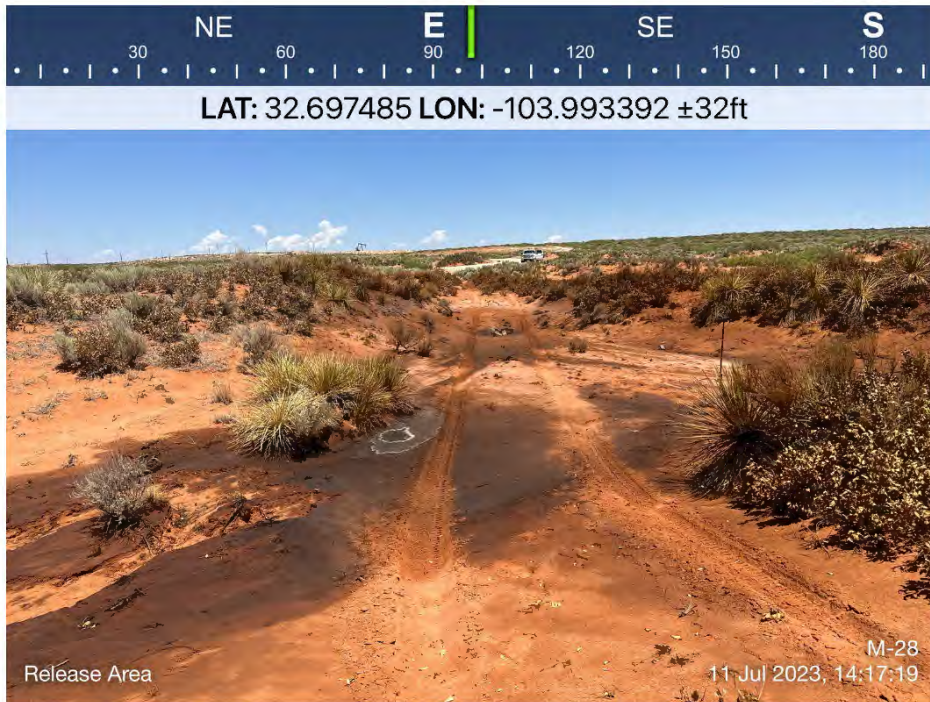
DCP Operating Company, LP

M-28 Line Leak – nAPP2319359955



DCP Operating Company, LP

M-28 Line Leak – nAPP2319359955



Appendix D – Certified Laboratory Analytical Reports



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

October 24, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 6062_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 15:57.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 1 @ 3' (H235709-04)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 1 @ 4' (H235709-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 2 @ 1' (H235709-07)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 2 @ 4' (H235709-10)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 3 @ 0-0.5' (H235709-11)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 3 @ 4' (H235709-15)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEx	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 4 @ 2' (H235709-18)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 4 @ 4' (H235709-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 5 @ 4' (H235709-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 5 @ 6' (H235709-27)

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	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEx	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 5 @ 8' (H235709-29)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	114	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	27.2	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 6 @ 1' (H235709-31)

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	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/19/2023	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	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 6 @ 4' (H235709-34)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 7 @ 2' (H235709-37)

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	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 7 @ 4' (H235709-39)

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	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

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	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 8 @ 0-0.5' (H235709-40)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	70.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	10.4	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 8 @ 4' (H235709-44)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 9 @ 2' (H235709-47)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.2 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 9 @ 4' (H235709-49)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 10 @ 4' (H235709-54)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 10 @ 6' (H235709-56)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 10 @ 8' (H235709-58)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 11 @ 5' (H235709-64)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 11 @ 6' (H235709-65)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 11 @ 8' (H235709-67)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

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	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 12 @ 0-0.5' (H235709-68)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	138	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	61.2	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 12 @ 4' (H235709-72)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/19/2023	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	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 13 @ 0-0.5' (H235709-73)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53		
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61		
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18		
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25		
Total BTEx	<0.300	0.300	10/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 13 @ 4' (H235709-77)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 14 @ 0-0.5' (H235709-78)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 14 @ 4' (H235709-82)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 15 @ 0-0.5' (H235709-83)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEx	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 15 @ 4' (H235709-87)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 16 @ 0-0.5' (H235709-88)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	28.2	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

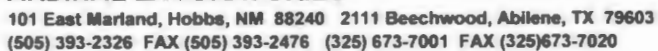
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences				BILL TO				ANALYSIS REQUEST											
Project Manager: Kyle Norman				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>TPH 8015 Ext</div> <div>BTEX</div> <div>Chlorides</div> <div>24-hr Rush</div> <div>Hold</div> </div>											
Address: 2620 W. Marland Blvd.				Company: Tasman Geo															
City: Hobbs		State: NM Zip: 88240		Attn: Kyle Norman															
Phone #: 575-318-5017		Fax #:		Address: 2620 W. Marland															
Project #: 6062		Project Owner: DCP Operating Company		City: Hobbs															
Project Name: 6062 M-28 Line Leak				State: NM Zip: 88240															
Project Location:				Phone #: 575-318-5017															
Sampler Name: Kendon Stark				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME					
H235709																			
1	HA-1 @ 0-0.5'	G	1			X					X		10/17/23	0900					
2	HA-1 @ 1'	G	1			X					X		10/17/23	0901					
3	HA-1 @ 2'	G	1			X					X		10/17/23	0902					
4	HA-1 @ 3'	G	1			X					X		10/17/23	0903	X	X			
5	HA-1 @ 4'	G	1			X					X		10/17/23	0904	X	X			
6	HA-2 @ 0-0.5'	G	1			X					X		10/17/23	0905					
7	HA-2 @ 1'	G	1			X					X		10/17/23	0906	X	X			
8	HA-2 @ 2'	G	1			X					X		10/17/23	0907					
9	HA-2 @ 3'	G	1			X					X		10/17/23	0908					
10	HA-2 @ 4'	G	1			X					X		10/17/23	0909	X	X			

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Relinquished By:	Date: 10/15/23 Time: 1557	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -13.0			REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; kstark@tasman-geo.com	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences						BILL TO							ANALYSIS REQUEST														
Project Manager: Kyle Norman						P.O. #:																					
Address: 2620 W. Marland Blvd.						Company: Tasman Geo																					
City: Hobbs		State: NM		Zip: 88240		Attn: Kyle Norman																					
Phone #: 575-318-5017		Fax #:				Address: 2620 W. Marland																					
Project #: 6062		Project Owner: DCP Midstream				City: Hobbs																					
Project Name: 6062_M-28 Line Leak						State: NM Zip: 88240																					
Project Location:						Phone #: 575-318-5017																					
Sampler Name: Kendon Stark						Fax #:																					
FOR LAB USE ONLY															TPH 8015 Ext	BTEX	Chlorides	24-hr Rush	Hold								
Lab I.D.		Sample I.D.		(GRAB OR C)COMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING															
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME											
H235709				G	1	X						X			10/17/23	0928	X	X	X								
31	HA-6 @ 1'	G	1	X								X			10/17/23	0930											
32	HA-6 @ 2'	G	1	X								X			10/17/23	0932											
33	HA-6 @ 3'	G	1	X								X			10/17/23	0934	X	X	X								
34	HA-6 @ 4'	G	1	X								X			10/18/23	0910											
35	HA-7 @ 0-0.5'	G	1	X								X			10/18/23	0912											
36	HA-7 @ 1'	G	1	X								X			10/18/23	0914	X	X	X								
37	HA-7 @ 2'	G	1	X								X			10/18/23	0916											
38	HA-7 @ 3'	G	1	X								X			10/18/23	0918	X	X	X								
39	HA-7 @ 4'	G	1	X								X			10/17/23	0936	X	X	X								
40	HA-8 @ 0-0.5'	G	1	X								X			10/17/23	0936	X	X	X								

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Relinquished By: 	Date: 10/19/23 Time: 1557	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:		
REMARKS:		email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;	

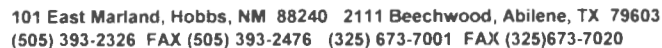
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -13°C

Sample Condition Cool Intact
☒ Yes ☐ No

CHECKED BY:
 (Initials)
 8R

#140

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences				BILL TO				ANALYSIS REQUEST											
Project Manager: Kyle Norman				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>TPH 8015 Ext</div> <div>BTEX</div> <div>Chlorides</div> <div>24-hr Rush</div> <div>Hold</div> </div>											
Address: 2620 W. Marland Blvd.				Company: Tasman Geo															
City: Hobbs		State: NM Zip: 88240		Attn: Kyle Norman															
Phone #: 575-318-5017		Fax #:		Address: 2620 W. Marland															
Project #: 6062		Project Owner: DCP Midstream		City: Hobbs															
Project Name: 6062 M-28 Line Leak				State: NM Zip: 88240															
Project Location:				Phone #: 575-318-5017															
Sampler Name: Kendon Stark				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE						ICE / COOL	OTHER	DATE	TIME
H235709																			
71	HA-12 @ 3'	G	1			X					X		10/17/23	1002					
72	HA-12 @ 4'	G	1			X					X		10/17/23	1004	X X X				
73	HA-13 @ 0-0.5'	G	1			X					X		10/17/23	1006	X X X				
74	HA-13 @ 1'	G	1			X					X		10/17/23	1008					
75	HA-13 @ 2'	G	1			X					X		10/17/23	1010					
76	HA-13 @ 3'	G	1			X					X		10/17/23	1012					
77	HA-13 @ 4'	G	1			X					X		10/17/23	1014	X X X				
78	HA-14 @ 0-0.5'	G	1			X					X		10/17/23	1016	X X X				
79	HA-14 @ 1'	G	1			X					X		10/17/23	1018					
80	HA-14 @ 2'	G	1			X					X		10/17/23	1020	X				

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Relinquished By:	Date: 10/18/23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1557			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
			Email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; kstark@tasman-geo.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - BUS -	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 		

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

October 24, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 6062_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 15:57.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 16 @ 4' (H235710-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 17 @ 3' (H235710-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 17 @ 4' (H235710-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 18 @ 0-0.5' (H235710-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	20.2	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 18 @ 5' (H235710-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 18 @ 8' (H235710-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 19 @ 1' (H235710-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

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	10/19/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 10/18/2023
 Reported: 10/24/2023
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 10/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 19 @ 4' (H235710-21)

BTEx 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67		
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21		
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69		
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03		
Total BTEX	<0.300	0.300	10/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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

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

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

February 14, 2024

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 6062_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 02/13/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 @ 4' (H240684-02)

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	02/13/2024	ND	1.89	94.7	2.00	3.84	
Toluene*	<0.050	0.050	02/13/2024	ND	1.99	99.6	2.00	3.61	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	1.98	99.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	5.99	99.9	6.00	3.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 @ 8' (H240684-04)

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	02/13/2024	ND	1.89	94.7	2.00	3.84	
Toluene*	<0.050	0.050	02/13/2024	ND	1.99	99.6	2.00	3.61	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	1.98	99.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	5.99	99.9	6.00	3.43	
Total BTEx	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 @ 2' (H240684-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/14/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 @ 8' (H240684-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEx	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 @ 4' (H240684-10)**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	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B**mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 @ 8' (H240684-12)

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	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEx	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 5 @ 10' (H240684-14)

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	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Analytical Results For:

TASMAN GEOSCIENCES
 KYLE NORMAN
 6899 PECOS ST. UNIT C
 DENVER CO, 80221
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: 6062_M-28 LINE LEAK
 Project Number: 6062
 Project Location: NONE GIVEN

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HA - 5 @ 12' (H240684-15)

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	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEx	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/14/2024	ND	416	104	400	3.77		

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	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	36.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- A-01 CCV failed marginally high for GRO. GRO not detected in associated samples
- 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences				BILL TO				ANALYSIS REQUEST																										
Project Manager: Kyle Norman				P.O. #:				TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush																						
Address: 2620 W. Mariand Blvd				Company: Tasman Geo																														
City: Hobbs State: NM Zip: 88240				Attn: Kyle Norman																														
Phone #: 575 318 5017 Fax #:				Address: 2620 W. Mariand																														
Project #: 6062 Project Owner: DCP Operating Company				City: Hobbs																														
Project Name: 6062 M-28 Line Leak				State: NM Zip: 88240																														
Project Location:				Phone #: 575 318-5017																														
Sampler Name: Kendon Stark				Fax #:																														
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING																						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME																				
1	V-1 @ 2'	G	1			X					X		2/13/24	1000					X															
2	V-1 @ 4'	G	1			X					X		2/13/24	1002	X	X	X			X														
3	V-1 @ 6'	G	1			X					X		2/13/24	1004					X															
4	V-1 @ 8'	G	1			X					X		2/13/24	1006	X	X	X			X														
5	V-2 @ 2'	G	1			X					X		2/13/24	1008	X	X	X			X														
6	V-2 @ 4'	G	1			X					X		2/13/24	1010					X															
7	V-2 @ 6'	G	1			X					X		2/13/24	1012					X															
8	V-2 @ 8'	G	1			X					X		2/13/24	1014	X	X	X			X														
9	V-3 @ 2'	G	1			X					X		2/13/24	1016					X															
10	V-3 @ 4'	G	1			X					X		2/13/24	1018	X	X	X			X														

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Relinquished By:	Date: 2/13/24	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 15:25		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: NMDData@tasman-geo.com	
Delivered By: (Circle One)			Janice.L.Hyman@p66.com; Albert.L.Hyman@p66.com	
Sampler - UPS - Bus - Other: 5.1c #140				
Sample Condition Cool Intact			CHECKED BY: (Initials)	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<i>[Signature]</i>	
<input type="checkbox"/> No <input type="checkbox"/> No				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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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

QUESTIONS

Action 390858

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:	36785
	Action Number:	390858
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2319359955
Incident Name	NAPP2319359955 M-28 LINE @ 0
Incident Type	Blow Out
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	M-28 LINE
Date Release Discovered	07/11/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Blow Out
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Blow Out Pipeline (Any) Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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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

QUESTIONS, Page 2

Action 390858

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:	36785
	Action Number:	390858
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Ray Smalts Title: Sr Environmental Eng/Spec Email: raymond.a.smalts@p66.com Date: 10/08/2024
--	---

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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District III

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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

QUESTIONS, Page 3

Action 390858

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:
	36785
	Action Number:
	390858
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	14200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	199
GRO+DRO	(EPA SW-846 Method 8015M)	138
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/02/2024
On what date will (or did) the final sampling or liner inspection occur	12/16/2024
On what date will (or was) the remediation complete(d)	12/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	15000
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	6000
What is the estimated volume (in cubic yards) that will be remediated	1500

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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District II

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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

QUESTIONS, Page 4

Action 390858

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:	36785
	Action Number:	390858
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ray Smalts Title: Sr Environmental Eng/Spec Email: raymond.a.smalts@p66.com Date: 10/08/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 390858

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 390858
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 390858

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 390858
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 390858

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:
	36785
	Action Number:
	390858
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance is approved for 400 ft2 floor confirmation samples in the Release/Overspray Areas. The release area will still need confirmation sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.	11/1/2024