

ZZ-2-4 LINE LEAK 1, 2 AND 3 Remediation Action Plan

**NMOCD Incident No. nOY1806142302
UL "A" & "B", Sec. 14, T22S, R37E
32.399028, -103.129553
Lea County, New Mexico**

January 25, 2024



PREPARED ON BEHALF OF

DCP Operating Company, LP
6900 E. Layton Avenue
Suite 900
Denver, CO 80237-3658

PREPARED BY

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



January 25, 2024

DCP Operating Company, LP
6900 E Layton Ave., Suite 900
Denver, CO 80237-3658

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

Re: Remediation Action Plan
ZZ-2-4 Line (Leaks 1, 2 and 3)
UL "A" and "B", Section 14, Township 22 South, Range 37 East | Lea County, New Mexico
NMOCD Incident No. nOY1806142302
Tasman Project No. 4976

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 releases of natural gas and natural gas condensate to the environment.

Tasman has conducted delineation activities at the aforementioned site. Based on laboratory analytical results from soil samples collected during confirmation sampling activities, impacted soil within the release area has been 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
Senior Environmental Scientist
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Regional Project Manager
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1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the ZZ-2-4 Line (Leaks 1, 2 and 3) (site) on behalf of DCP Operating Company, LP (DCP), documenting the results of field activities conducted in response to a release of natural gas and natural gas condensate to environmental media.

1.1 Site Description

The site is located in Unit Letter “A” and “B” of Section 14, Township 22 South, Range 37 East in Lea County, New Mexico. The release occurred from the ZZ-2-4 pipeline, a 16-inch diameter steel natural gas pipeline. The release occurred on private land currently held by Trey Holdings, LLC.

1.2 Site History

On June 16, 2017, the ZZ-2-4 pipeline was discovered by DCP personnel to have failed due to internal corrosion. The release resulted in the loss of an unknown volume of natural gas and natural gas condensate to the environment. DCP personnel shut in the pipeline to isolate the release. The line was later repaired and returned to service. An initial C-141 was provided to the NMOCD, encompassing all three releases on the same pipeline, on March 1, 2018. The reference number 1RP-4979 was assigned to the three releases. A copy of the Initial C-141 and NMOCD notifications are provided in Appendix A.

Beginning on June 17, 2017, DCP performed excavation activities at the site to remove impacted soils at each of the three releases.

On July 13, 2017, vertical delineation trenches (vertical) were advanced using mechanical equipment, within the remedial excavation, in attempt to achieve vertical delineation. Data collected from these verticals will be further discussed in Section 4.0.

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 previous project experience for registered water wells within a half-mile radius of the site. The nearest wells are located approximately 0.35 miles south of the site, identified as monitor wells MW-1 through MW-3. Depth to groundwater was

measured at 61.90 to 62.32 feet bgs in November 2010.

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

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 assumed to be NMOSE POD CP 00555. The well is located 925 feet from the site. The well application filed in 1977 indicates that the well is used for potable water. The location of POD CP 00555 is shown in 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 significant surface water was identified as San Simon Sink, located 17.5 miles from the site at Leak 1. Whalen Lake was also identified 18.3 miles from the site. One freshwater pond was identified 0.68 miles southeast of the site. The location of the nearest freshwater pond is illustrated on Figure 1 and surface water bodies on Figure 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 FIRMetete 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 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:	~62 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 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, the NMOCD Action Levels for a site with a depth to groundwater of between 50 and 100 feet bgs were utilized; these Action Levels are as follows:

Constituent	Remediation Action Level
Chloride	10,000 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

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

Leak 1

On July 13, 2017, a vertical delineation trench (vertical) was advanced using mechanical equipment, within the remedial excavation in attempt to achieve vertical delineation. Vertical 1 was advanced to a depth of 28 feet below ground surface (bgs).

On March 8, 2018, a soil boring was advanced within the remedial excavation using a truck-mounted air rotary drilling rig. The soil boring (SB-1) was advanced to a depth of 50 feet bgs.

On May 23, 24, and 26, 2023, additional soil borings were installed at the site. Soil borings B-1 through B-6 were advanced to depths ranging from 30 feet to 55 feet bgs using a truck-mounted air rotary drilling rig. Soil borings B-7 and B-8 were advanced until refusal at 9 and 8 feet bgs, respectively, using direct push technology (DPT) due to the presence of overhead power lines.

The attached Figure 5 illustrates the current excavation extents and location of the vertical and soil borings. A photographic log is included as Appendix C.

Leak 2

On July 13, 2017, a vertical delineation trench (vertical) was advanced using mechanical equipment, within the remedial excavation in attempt to achieve vertical delineation. Vertical 1 was advanced to a depth of 19 feet below ground surface (bgs).

On March 8, 2018, a soil boring was advanced within the remedial excavation using a truck-mounted air rotary drilling rig. The soil boring (SB-3) was advanced to a depth of 35 feet bgs.

On May 24 to 26, 2023, additional soil borings were installed at the site. Soil borings B-1 through B-5 were advanced to depths ranging from 30 feet to 55 feet bgs using a truck-mounted air rotary drilling rig. Soil boring B-6 was advanced until refusal was met at 12 feet bgs using direct push technology (DPT) due to the presence of overhead power lines.

The attached Figure 6 illustrates the current excavation extents and location of the vertical and soil borings. A photographic log is included as Appendix D.

Leak 3

On March 8, 2018, a soil boring was advanced within the remedial excavation using a truck-mounted air rotary drilling rig. The soil boring (SB-2) was advanced to a depth of 15 feet bgs.

The attached Figure 7 illustrates the current excavation extent and location of the soil boring. A photographic log is included as Appendix E.

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 soil sample was analyzed using Environmental Protection Agency (EPA) 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 Assessment Data Evaluation

Leak 1

Historical Data

Concentrations of BTEX and TPH were above the NMOCD Action Level in each of the soil samples collected from Vertical 1, to a terminal depth of 28 feet bgs. None of the collected soil samples were analyzed for chlorides.

Concentrations of BTEX and TPH exceeded standards to a depth of 30 feet bgs in the soil boring (SB-1) advanced in 2018.

2023 Data

Concentrations of BTEX were detected above standards in soil boring B-2. Detected concentrations of BTEX ranged from 0.857 milligrams per kilogram (mg/kg) in soil boring B-2 at 35 feet bgs to 77.2 mg/kg in soil boring B-2 at 15 feet bgs.

Concentrations of TPH were detected above standards in soil borings B-1 and B-2. Concentrations of TPH ranged from 21.4 mg/kg in soil boring B-1 at 30 feet bgs to 11,800 mg/kg in soil boring B-2 at 20 feet bgs.

Concentrations of chlorides were detected above laboratory reported detection limit (RDL) in numerous samples collected from the soil borings advanced at the site. None of the detected concentrations of chlorides exceeded standards. Detected concentrations of chlorides ranged from 16.0 mg/kg in various samples to 400 mg/kg in soil boring B-1 at 10 feet bgs.

Leak 2

Historical Data

Concentrations of BTEX and TPH were above the NMOCD Action Level in each of the soil samples collected from Vertical 1, to a terminal depth of 19 feet bgs. None of the collected soil samples were analyzed for chlorides.

Concentrations of BTEX and TPH exceeded standards in the sample collected from 20 feet bgs in the soil boring (SB-3) advanced in 2018. Concentrations of BTEX and TPH were not detected above the laboratory reported detection limit (RDL) in the samples collected from 30 and 35 feet bgs. Chlorides were detected at concentrations greater than the laboratory RDL in soil samples collected from 20 and 35 feet bgs but were below NMOCD delineation standards.



2023 Data

Concentrations of BTEX were detected above standards in soil borings B-2 and B-4. Detected concentrations of BTEX ranged from 1.70 milligrams per kilogram (mg/kg) in soil boring B-4 at 55 feet bgs to 118 mg/kg in soil boring B-2 at 15 feet bgs.

Concentrations of TPH were detected above standards in soil borings B-2 and B-4. Concentrations of TPH ranged from 11.5 mg/kg in soil boring B-2 at 40 feet bgs to 8,990 mg/kg in soil boring B-2 at 15 feet bgs.

Concentrations of chlorides were detected above standards in soil boring B-5. The soil sample collected at 10 feet bgs exhibited a concentration of 1,420 mg/kg. The elevated concentration of chlorides is assumed to be naturally occurring, due to chlorides not being detected in similar concentrations from samples collected from source material of the release. Concentrations of chlorides ranged from 16.0 mg/kg in soil boring B-2 at 15 feet bgs to 1,420 mg/kg in soil boring B-5 at 10 feet bgs.

Leak 3

Historical Data

Concentrations of BTEX and TPH were not detected above the laboratory reported detection limit (RDL) throughout submitted samples in soil boring SB-2. Chlorides were detected greater than the laboratory RDL in the soil sample collected at 15 ft bgs at soil boring SB-2. The detected concentration of chlorides was below standards.

Analytical results are summarized in Tables 1, 2, and 3 and laboratory analytical results are included as Appendix F.

5.0 PROPOSED REMEDIAL ACTIONS

Leak 1

Tasman proposes to remediate the site using physical removal of soil within the delineated area. Horizontal delineation was not achieved to the east at soil boring B-1. Tasman will excavate the area surrounding Vertical 1 and soil borings SB-1, B-1, and B-2 to the applicable NMOCD criteria for the site. The areas surrounding Vertical 1 and soil boring SB-1 will be excavated to approximately 30 feet bgs.

Leak 2

Tasman proposes to remediate the site using physical removal of soil within the delineated area of the release. Vertical delineation was not achieved at soil boring B-4. Tasman will excavate the



area surrounding Vertical 1 and soil borings SB-3, B-2, and B-4 to the applicable NMOCD criteria for the site. The areas surrounding these points will be excavated to approximately 30 feet bgs.

All other areas will be excavated until field data and/or observations indicate that the impacted material will meet Action Levels. Excavated soil will be staged on-site atop a polyethylene liner pending transportation under manifest to an NMOCD approved disposal facility.

Leak 3

Based on laboratory analytical results from the soil boring advanced in 2018, impacts from the release are shallower than 5 feet bgs. Tasman proposes to remove blow sand that has partially filled the historic excavation to a depth of 5 feet bgs. The sidewalls of the excavation will be extended an additional 2 feet in each cardinal direction, and delineation will be confirmed with confirmation sampling.

Confirmation Sampling Variance Request

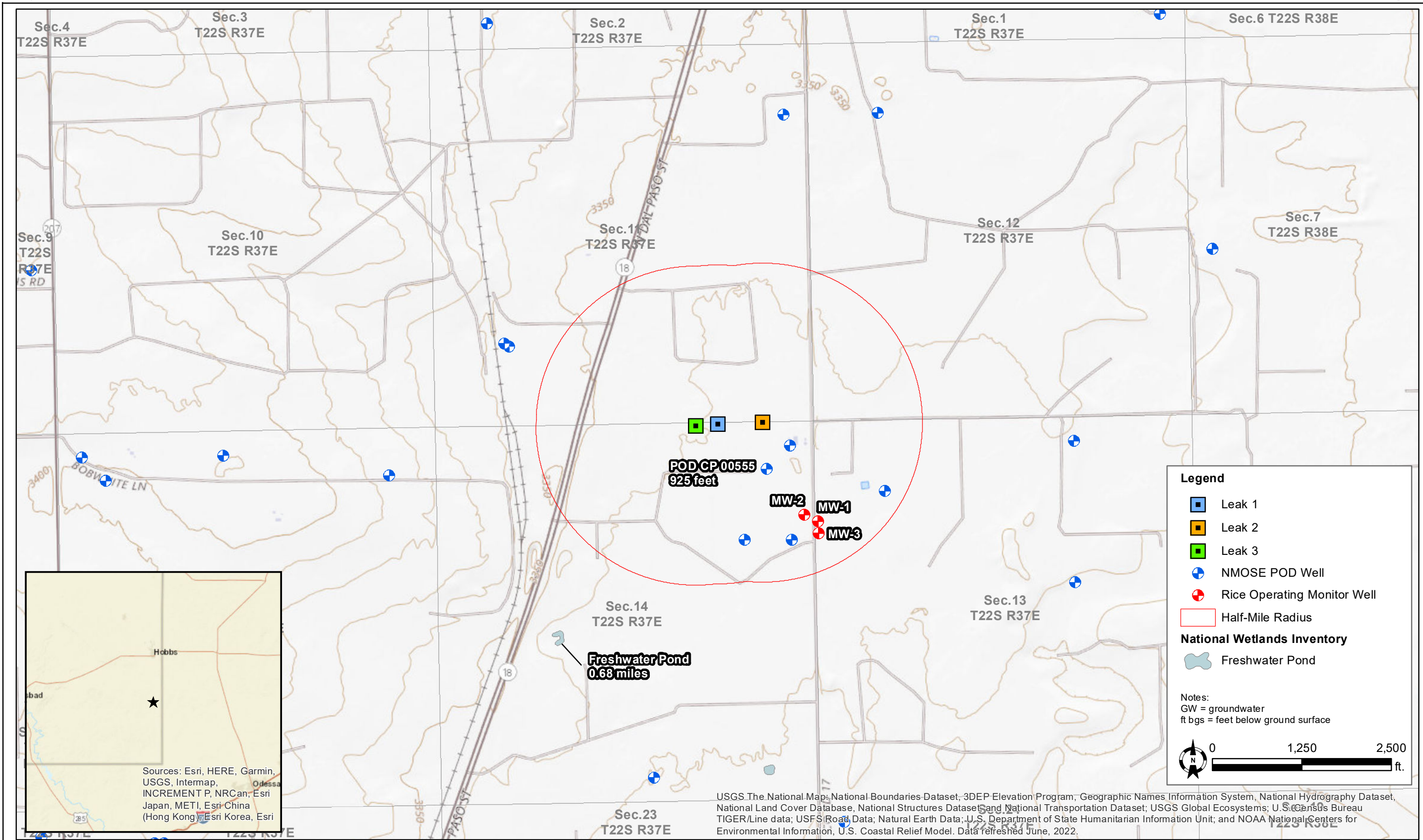
Once field data indicates that the release areas has been remediated to NMOCD requirements established in Section 3.0, Tasman will collect five-point confirmation samples from the base and sidewalls of the excavation. The collected confirmation samples will represent an area no greater than 500 ft². 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 surface owner will be consulted for their preference in native seed mix. Upon approval the area will be seeded 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



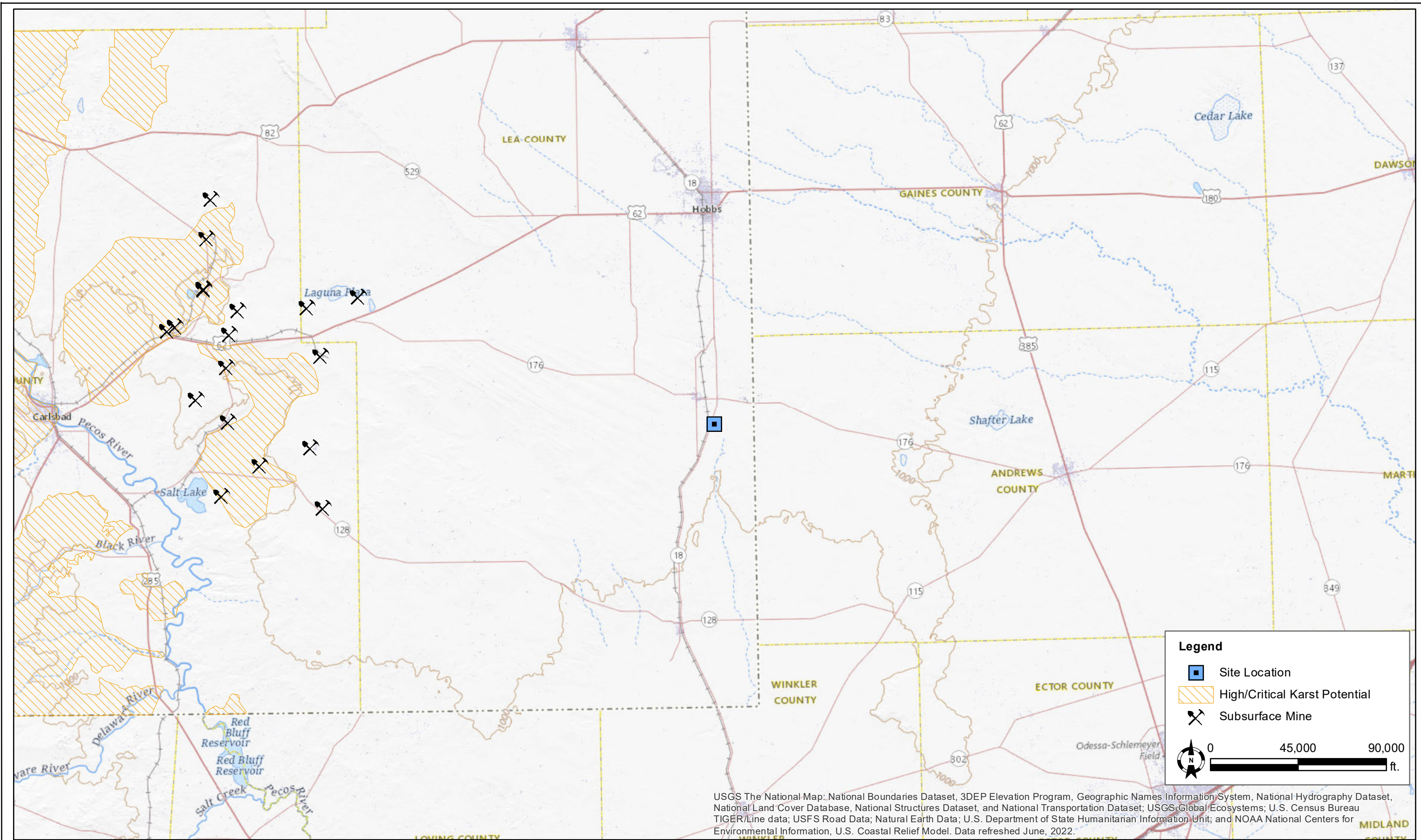
DATE:	January 2024
DESIGNED BY:	B. Dennis
DRAWN BY:	B. Dennis

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 Broomfield, CO 80020


DCP Operating Company, LP
ZZ-2-4 Line Leaks - nOY1806142302
 UL "A" & "B", Sec. 14, T22S, R37E
 Lea County, New Mexico

Site Location & Groundwater
 Map

Figure
 1



DATE:	January 2024
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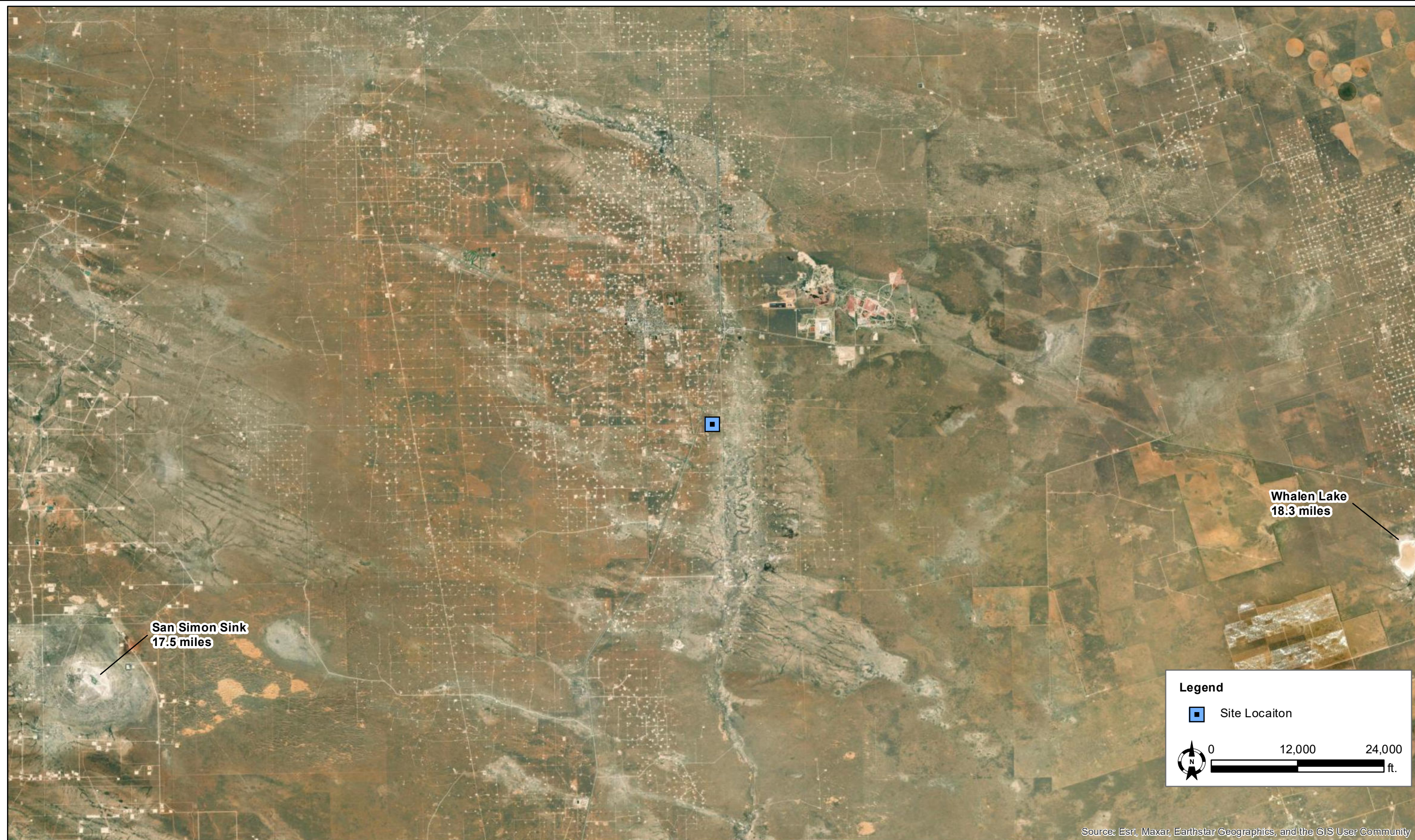


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Karst Potential & Subsurface
 Mine Map

Figure
 2



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Surface Water Map

Figure 3

National Flood Hazard Layer FIRMMette



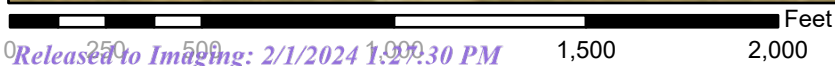
103°8'5"W 32°24'12"N



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
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - 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.



1:6,000

103°7'28"W 32°23'41"N

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 **1/11/2024 at 9:21 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.



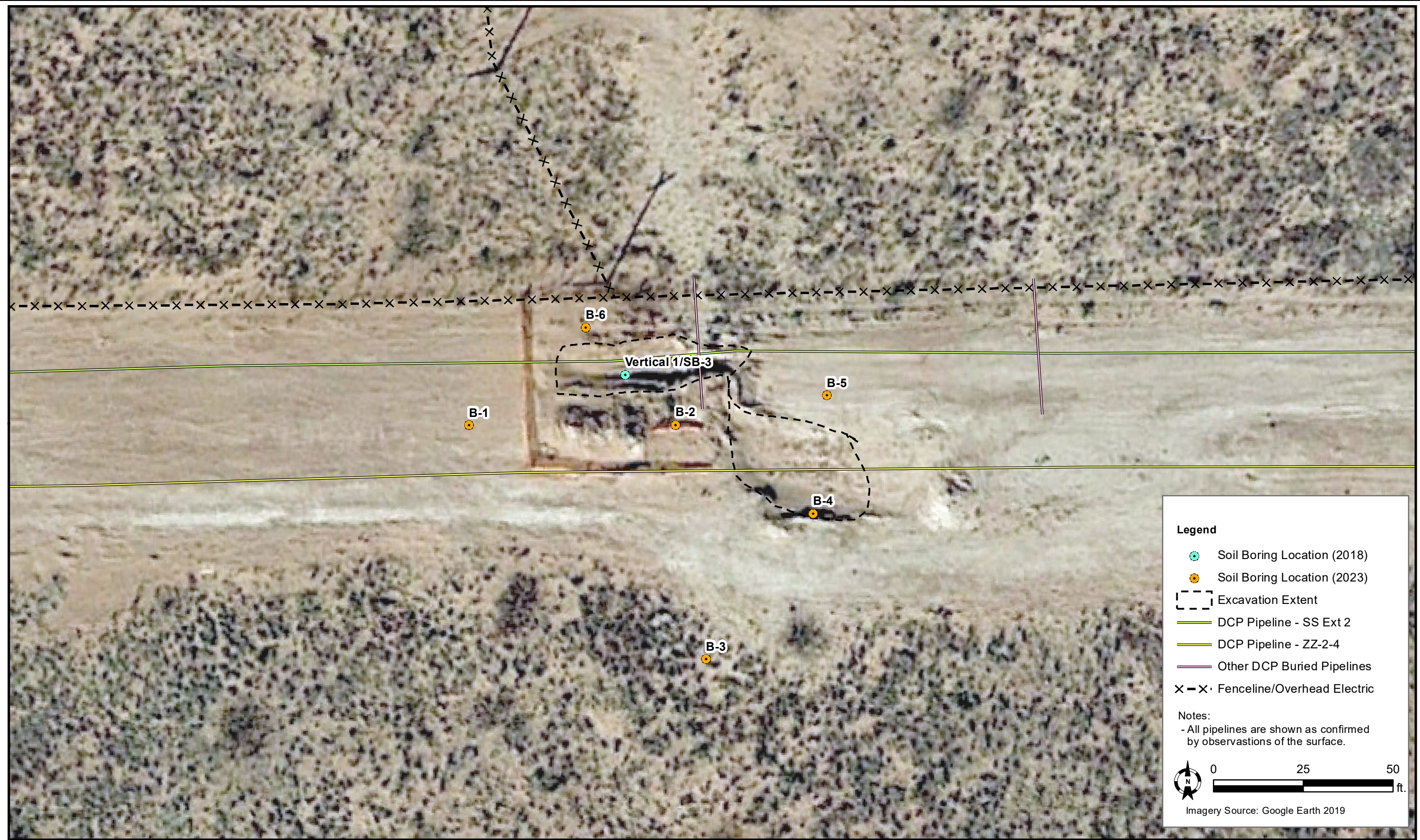
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ZZ-2-4 Line Leak 1
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Delineation Overview Map

Figure 5



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ZZ-2-4 Line Leak 2
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Delineation Overview Map

Figure
6



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Delineation Overview Map

Figure
7

Tables

TABLE 1
SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
DCP Operating Company, LP
ZZ-1 Line Leak 1

Sample ID	Sample Depth (ft bgs)	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	
Site Assessment Soil Samples												
Vertical 1	12	7/13/2017	Excavated	---	---	5.24	200	3,870	16,800	2,630	23,300	---
	14		In-Situ	---	---	3.83	139	2,390	10,300	1,780	14,470	---
	16		In-Situ	---	---	6.24	230	3,390	12,100	1,910	17,400	---
	18		In-Situ	---	---	4.04	222	4,460	15,800	2,480	22,740	---
	20		In-Situ	---	---	5.75	311	8,590	22,300	3,420	34,310	---
	24		In-Situ	---	---	3.04	105	760	2,370	313	3,443	---
	28		In-Situ	---	---	2.57	191	3,080	8,530	1,190	12,800	---
SB-1	30	3/8/2018	In-Situ	2,971	90	4.49	246	2,730	6,820	950	10,500	15.0
	35		In-Situ	845	90	---	---	---	---	---	---	---
	40		In-Situ	707	89	<0.050	2.80	91.7	628	105	825	---
	45		In-Situ	92	60	<0.050	<0.300	<10.0	53.7	<10.0	53.7	---
	50		In-Situ	131	120	<0.050	<0.300	<10.0	54.4	<10.0	54.4	43.1
B-1	5	5/23/2023	In-Situ	255	148	<0.050	<0.300	23.4	3,120	878	4,021	192
	10		In-Situ	7.5	305	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	400
	15		In-Situ	15.6	302	---	---	---	---	---	---	---
	20		In-Situ	23.8	296	<0.050	<0.300	<10.0	50.2	<10.0	50.2	272
	25		In-Situ	17.4	307	---	---	---	---	---	---	---
	30		In-Situ	24.2	145	<0.050	<0.300	<10.0	21.4	<10.0	21.4	112
	35		In-Situ	4.6	47	---	---	---	---	---	---	---
	40		In-Situ	6.5	151	---	---	---	---	---	---	---
	45		In-Situ	8.5	146	---	---	---	---	---	---	---
	50		In-Situ	18.5	151	---	---	---	---	---	---	---
B-2	5	5/23/2023	In-Situ	10.1	146	---	---	---	---	---	---	---
	10		In-Situ	2,014	151	---	---	---	---	---	---	---
	15		In-Situ	2,052	153	<1.00	77.2	1,590	6,060	1,320	8,970	32.0
	20		In-Situ	1,499	147	<1.00	58.4	1,920	8,490	1,390	11,800	48.0
	25		In-Situ	221	156	---	---	---	---	---	---	---
	30		In-Situ	57.9	149	---	---	---	---	---	---	---
	35		In-Situ	28.3	153	<0.050	0.857	22.7	312	67.2	402	144
	40		In-Situ	27.2	148	---	---	---	---	---	---	---
	45		In-Situ	87.9	151	---	---	---	---	---	---	---
	50		In-Situ	208	299	---	---	---	---	---	---	---
B-3	5	5/23/2023	In-Situ	---	294	<0.050	<0.300	<10.0	28.8	<10.0	28.8	272
	10		In-Situ	293	152	---	---	---	---	---	---	---
	15		In-Situ	400	152	<0.050	<0.300	<10.0	125	19.1	144	16.0
	20		In-Situ	34.8	48	---	---	---	---	---	---	---
	25		In-Situ	24.9	147	<0.050	<0.300	<10.0	327	79.9	407	32.0
	30		In-Situ	23.1	147	---	---	---	---	---	---	---
NMOCD Action Levels ⁴				N/A	N/A	10	50	1,000	N/A	2,500	10,000	

Notes:

- BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
 - TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
 - Chloride - Analyzed by EPA method SM4500
 - New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample. All other samples are five-point composites
N/A = Not applicable
Bold values denote concentrations above laboratory SDL
Red values denote concentrations above NMOCD Action Levels

- ft bgs = feet 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 recorded detection limit (RDL)

TABLE 1
SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
DCP Operating Company, LP
ZZ-1 Line Leak 1

Sample ID	Sample Depth (ft bgs)	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	
B-4	5 - 7'	5/23/2023	In-Situ	3.0	148	----	----	----	----	----	----	----
	10 - 12'		In-Situ	8.2	155	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	15 - 17'		In-Situ	7.7	145	----	----	----	----	----	----	----
	20 - 22'		In-Situ	3.0	310	----	----	----	----	----	----	----
	25 - 27'		In-Situ	135	156	<0.050	<0.300	<10.0	76.9	11.7	88.6	112
	30 - 32'		In-Situ	10.9	286	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	240
	35 - 37'		In-Situ	78.1	323	----	----	----	----	----	----	----
40 - 42'	In-Situ	2.8	286	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	240		
B-5	5 - 7'	5/24/2023	In-Situ	4.2	148	----	----	----	----	----	----	----
	10 - 12'		In-Situ	4.8	151	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	15 - 17'		In-Situ	5.8	148	----	----	----	----	----	----	----
	20 - 22'		In-Situ	5.5	150	----	----	----	----	----	----	----
	25 - 27'		In-Situ	2.5	149	----	----	----	----	----	----	----
	30 - 32'		In-Situ	5.9	292	----	----	----	----	----	----	----
	35 - 37'		In-Situ	6.4	300	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	288
	40 - 42'		In-Situ	4.9	150	----	----	----	----	----	----	----
	45 - 47'		In-Situ	1	152	----	----	----	----	----	----	----
50 - 52'	In-Situ	2.4	144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160		
B-6	5 - 7'	5/24/2023	In-Situ	1.3	153	----	----	----	----	----	----	----
	10 - 12'		In-Situ	4.3	155	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	15 - 17'		In-Situ	0.9	154	----	----	----	----	----	----	----
	20 - 22'		In-Situ	1.2	147	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
	25 - 27'		In-Situ	0.6	144	----	----	----	----	----	----	----
	30 - 32'		In-Situ	1.4	448	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	256
B-7	0'-2'	5/26/2023	In-Situ	2.5	149	----	----	----	----	----	----	----
	2'-4'		In-Situ	7.9	149	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	4'-6'		In-Situ	2.1	143	----	----	----	----	----	----	----
	6'-8'		In-Situ	6.7	142	----	----	----	----	----	----	----
	8'-9'		In-Situ	3.5	138	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
B-8	0'-2'	5/26/2023	In-Situ	7.6	139	----	----	----	----	----	----	----
	2'-4'		In-Situ	7.3	138	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4'-6'		In-Situ	5.1	143	----	----	----	----	----	----	----
	6'-8'		In-Situ	9.1	146	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
NMOCD Action Levels ⁴				N/A	N/A	10	50	1,000	N/A	2,500	10,000	

Notes:

- BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
 - TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
 - Chloride - Analyzed by EPA method SM4500
 - New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample. All other samples are five-point composites
 N/A = Not applicable
Bold values denote concentrations above laboratory SDL
Red values denote concentrations above NMOCD Action Levels

- ft bgs = feet 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 recorded detection limit (RDL)

TABLE 2
SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
 DCP Operating Company, LP
 ZZ-2-4 Line Leak 2

Sample ID	Sample Depth (ft bgs)	Sample Date	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	
Site Assessment Soil Samples											
Vertical 1	9	7/13/2017	---	---	12.6	570	5,130	13,800	2,240	21,170	---
	12		---	---	12.2	494	6,160	16,200	2,550	24,910	---
	14		---	---	14.7	438	8,370	21,100	3,080	32,550	---
	16		---	---	14.1	397	5,610	14,800	2,370	22,780	---
	18		---	---	4.13	122	1,020	3,160	692	4,872	---
	19		---	---	12.4	218	1,110	2,880	489	4,479	---
SB-3	20	3/8/2018	1,011	89	0.592	25.4	498	2,900	267	3,665	46.8
	25		---	115	---	---	---	---	---	---	---
	30		23.5	150	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	---
	35		43.2	323	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	449
B-1	5	5/24/2023	1.6	156	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	10		2.3	145	----	----	----	----	----	----	----
	15		1.6	156	----	----	----	----	----	----	----
	20		6.3	150	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	25		3.2	147	----	----	----	----	----	----	----
	30		8.2	150	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
B-2	5	5/24/2023	1622	148	----	----	----	----	----	----	----
	10		1,803	142	----	----	----	----	----	----	----
	15		2,251	141	1.24	118	1,870	6,140	980	8,990	16.0
	20		2,031	145	----	----	----	----	----	----	----
	25		464.7	149	----	----	----	----	----	----	----
	30		309.8	297	<0.050	2.34	34.2	370	53.2	457	272
	35		16.7	149	----	----	----	----	----	----	----
	40		19.5	146	<0.050	<0.300	<10.0	11.5	<10.0	11.5	64.0
B-3	5	5/24/2023	21.4	151	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	10		7.4	150	----	----	----	----	----	----	----
	15		6.4	148	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	20		2.7	152	----	----	----	----	----	----	----
	25		19.5	147	----	----	----	----	----	----	----
	30		9.8	153	<0.050	<0.300	<10.0	39.3	<10.0	39.3	112
NMOCD Action Levels⁴			N/A	N/A	10	50	1,000		N/A	2,500	10,000

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 300
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.1

- ft bgs = feet below ground surface
- GRO = Gasoline range organics
- DRO = Diesel range organics
- MRO = Motor/lube oil range organics
- PID = Photoionization detector

* = Denotes discrete/grab sample. All other samples are five-point composites

--- = Sample was not analyzed for this analyte

N/A = Not applicable

<RDL = The analyte was not detected above the laboratory recorded detection limit (RDL)

Bold values denote concentrations above laboratory RDL

Red values denote concentrations above NMOCD Action Levels

**TABLE 2
SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
DCP Operating Company, LP
ZZ-2-4 Line Leak 2**

Sample ID	Sample Depth (ft bgs)	Sample Date	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	
B-4	5	5/25/2023	2.0	152	----	----	----	----	----	----	----
	10		520.2	150	----	----	----	----	----	----	----
	15		922	148	----	----	----	----	----	----	----
	20		2112	154	----	----	----	----	----	----	----
	25		3338	144	----	----	----	----	----	----	----
	30		4095	145	1.12	68.2	1,270	4,700	654	6,624	80.0
	35		2682	300	----	----	----	----	----	----	----
	40		1572	148	----	----	----	----	----	----	----
	45		442.8	152	<0.050	2.89	26.3	339	32.2	398	288
	50		233.2	149	----	----	----	----	----	----	----
55	173.2	150	<0.050	1.70	25.9	434	56.8	517	96.0		
B-5	5	5/25/2023	4.9	150	----	----	----	----	----	----	----
	10		6.8	755	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,420
	15		3.5	148	----	----	----	----	----	----	----
	20		11.9	149	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
	25		26.3	148	----	----	----	----	----	----	----
	30		31.4	150	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	208
B-6	0-2	5/26/2023	10	148	----	----	----	----	----	----	----
	2-4		9.9	148	----	----	----	----	----	----	----
	4-6		12.6	144	----	----	----	----	----	----	----
	6-8		13	144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	8-10		9.7	145	----	----	----	----	----	----	----
	10-12		13.3	146	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
NMOCD Action Levels ⁴			N/A	N/A	10	50	1,000	N/A	2,500	10,000	

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 300
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.1
- * = Denotes discrete/grab sample. All other samples are five-point composites
- N/A = Not applicable
- Bold** values denote concentrations above laboratory RDL
- Red** values denote concentrations above NMOCD Action Levels

- ft bgs = feet 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 recorded detection limit (RDL)

**TABLE 3
SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES
DCP Operating Company, LP
ZZ-2-4 Line Leak3**

Sample ID	Sample Depth (ft bgs)	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	
Site Assessment Soil Samples												
SB-2	5	3/8/2018	In-Situ	7.1	242	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0	<10.0
	10		In-Situ	6.5	271	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0	---
	15		In-Situ	4.5	332	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0	420
NMOCD Action Levels⁴				N/A	N/A	10	50	1,000		N/A	2,500	10,000

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 Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample. All other samples are five-point composites
- N/A = Not applicable
- Bold** values denote concentrations above laboratory RDL
- Red** values denote concentrations above NMOCD Action Levels

- ft bgs = feet 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 recorded detection limit (RDL)

Appendix A – Initial Form C-141 and NMOCD Notifications

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

Form C-14
Revised August 8, 20

Submit 1 Copy to appropriate District Office
accordance with 19.15.29 NMA

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company DCP Midstream, LP	Contact Hack Conder
Address 10 Desta Drive, Suite 400 West	Telephone No. 575-234-6404
Facility Name ZZ-2-4	Facility Type Natural Gas Gathering Pipeline
Surface Owner Patrick Simms	Mineral Owner Fee API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	14	22S	37E					Lea

Latitude 32.398999 Longitude -103.129200

NATURE OF RELEASE

Type of Release: Raw Natural Gas, Condensate	Volume of Release Unknown	Volume Recovered 0 bbl
Source of Release ZZ-2-4 Gas Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 6-16-2016
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 11:30 am, Mar 02, 2018

If a Watercourse was Impacted, Describe Fully.* N / A

Describe Cause of Problem and Remedial Action Taken.* First Leak 32.398999 -103.129200 and Second Leak 32.398999 -103.127335 was discovered on 6/16/17 and the Third Leak 32.398999 -103.130498 on 10/18/17 DCPM employee was completing daily field work and discovered leaks. The first two leaks showed small amount of contamination above ground once repair activities started it was determined that the release was larger and over reportable limit.

Describe Area Affected and Cleanup Action Taken.*
A cleanup plan will be submitted to OCD Approval. The excavation from the repairs will be left open until remediation can be completed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health, or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: <i>Hack Conder</i>	Approved by Environmental Specialist: <i>oy</i>	
Printed Name: Hack Conder	Approval Date: 3/2/2018	Expiration Date:
Title: Compliance Coordinator	Conditions of Approval: see attached directive	
E-mail Address: hconder@dcpmidstream.com	Attached <input checked="" type="checkbox"/>	
Date: 2-28-2018 Phone: .575-234-6404		

* Attach Additional Sheets If Necessary

fOY1806142103

1RP-4979

nOY1806142302

pOY1806142811

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/1/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4979 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 4/2/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

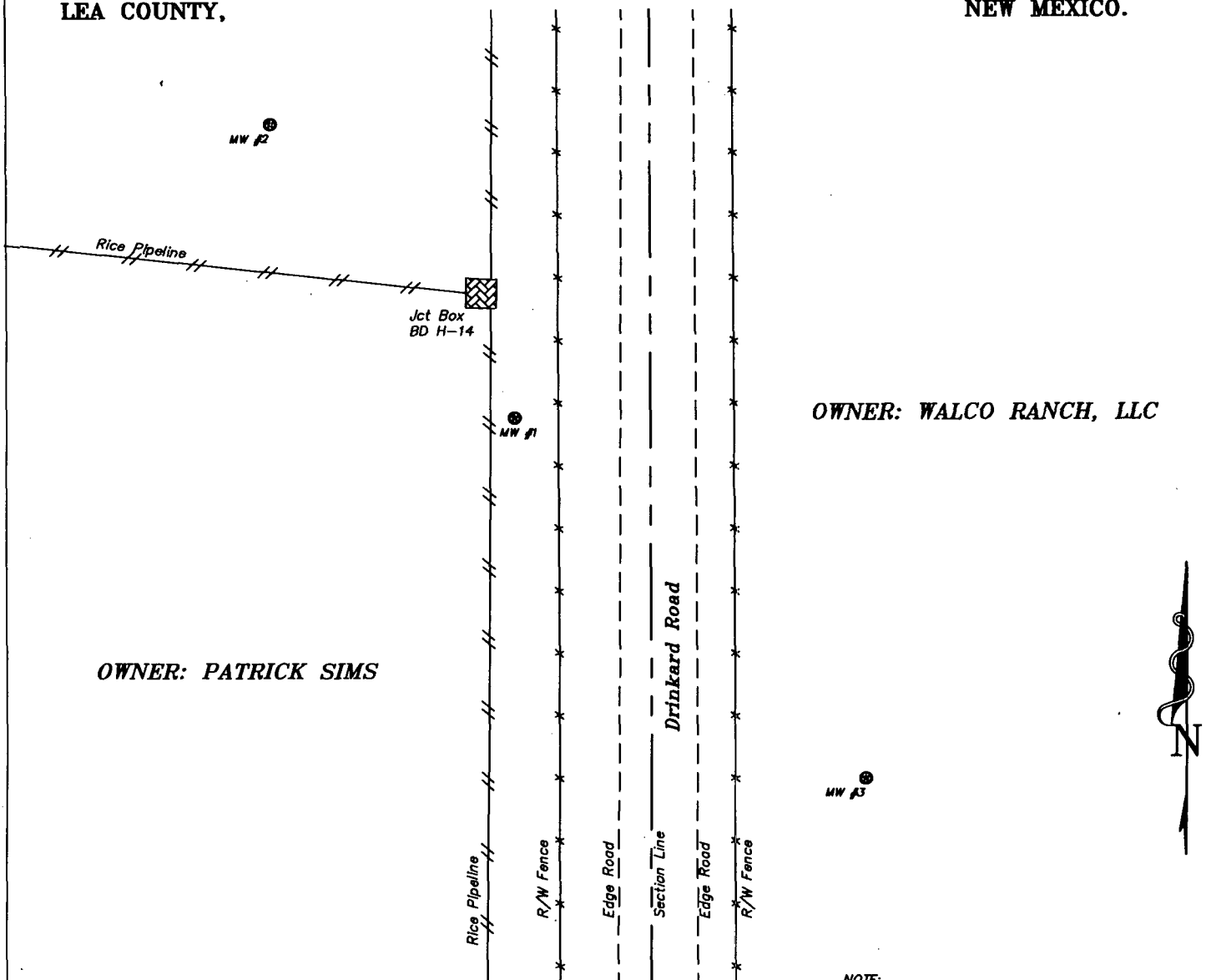
Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Appendix B – Depth to Groundwater Information

**SECTION 14, TOWNSHIP 22 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY,
NEW MEXICO.**



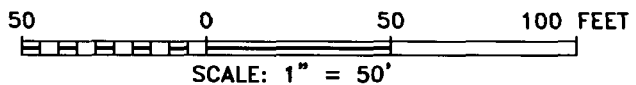
OWNER: WALCO RANCH, LLC

OWNER: PATRICK SIMS

**NOTE:
ELEVATIONS ARE ON BLACK MARK
ON NORTH SIDE OF PVC CASING.**

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV. PVC	ELEV. GRND	ELEV. CON.
MW #1	509631.333	914173.313	32°23'42.921"	103°07'31.506"	3339.31'	3336.91'	3337.02'
MW #2	509726.639	914093.114	32°23'43.873"	103°07'32.429"	3339.20'	3336.48'	3336.61'
MW #3	509515.023	914288.705	32°23'41.258"	103°07'30.176"	3338.66'	3336.11'	3336.28'



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES
 No. 7977
 No. 5074

RICE OPERATING COMPANY

REF: BD H-14 SITE

MONITOR WELL LOCATED IN
SECTION 14, TOWNSHIP 22 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 23725 Drawn By: K. GOAD

Date: 11-22-2010 Disk: KJG - 23725MW.DWG Survey Date: 11-16-2010 Sheet 2 of 2 Sheets

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

ROC BD H-14

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
1	62.31	77.50	2.4	10	4/15/2010	980	2470	<0.001	<0.001	<0.001	<0.003	368
1	62.30	77.50	2.4	10	7/9/2010	860	2250	<0.001	<0.001	<0.001	<0.003	378
1	62.32	77.50	2.4	10	10/7/2010	870	2310	<0.001	<0.001	<0.001	<0.003	301

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
2	77.55	62.06	2.5	10	11/10/2010	560	1650	<0.001	<0.001	<0.001	<0.003	466

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
3	77.68	61.90	2.5	10	11/10/2010	710	1810	<0.001	<0.001	<0.001	<0.003	297

Sample results in milligrams per liter

Appendix C – Photographic Log (Leak 1)

**DCP Operation Company, LP
ZZ-2-4 Line Leak 1**



Release – 6/20/2017



Release – 6/20/2017

**DCP Operation Company, LP
ZZ-2-4 Line Leak 1**



Release – 6/20/2017

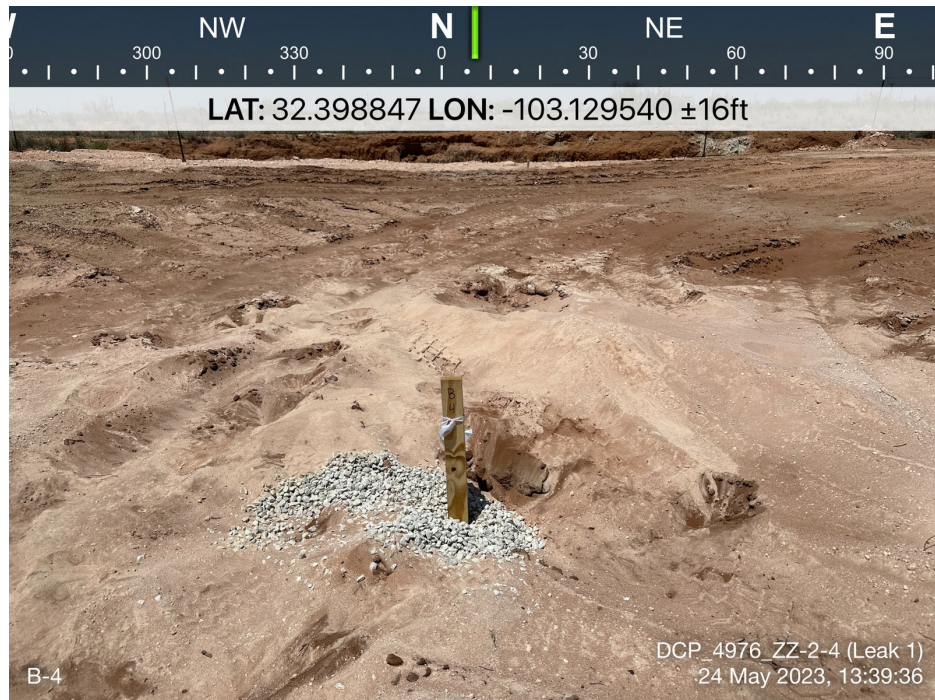


SB-1 Installation – 3/8/2018

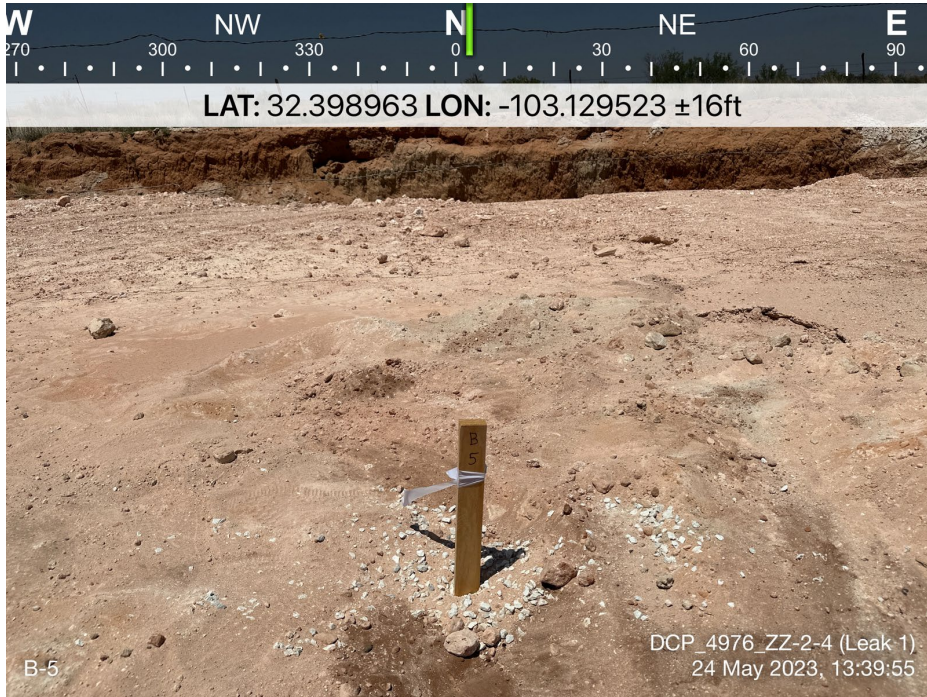
DCP Operation Company, LP
ZZ-2-4 Line Leak 1



DCP Operation Company, LP
ZZ-2-4 Line Leak 1



DCP Operation Company, LP
ZZ-2-4 Line Leak 1



DCP Operation Company, LP
ZZ-2-4 Line Leak 1



Appendix D – Photographic Log (Leak 2)

**DCP Operating Company, LP
ZZ-2-4 Line Leak 2**



Release Area – 6/20/2017



Release Area – 6/20/2017

**DCP Operating Company, LP
ZZ-2-4 Line Leak 2**



Release Area – 6/20/2017



Release Area – 6/20/2017

**DCP Operating Company, LP
ZZ-2-4 Line Leak 2**

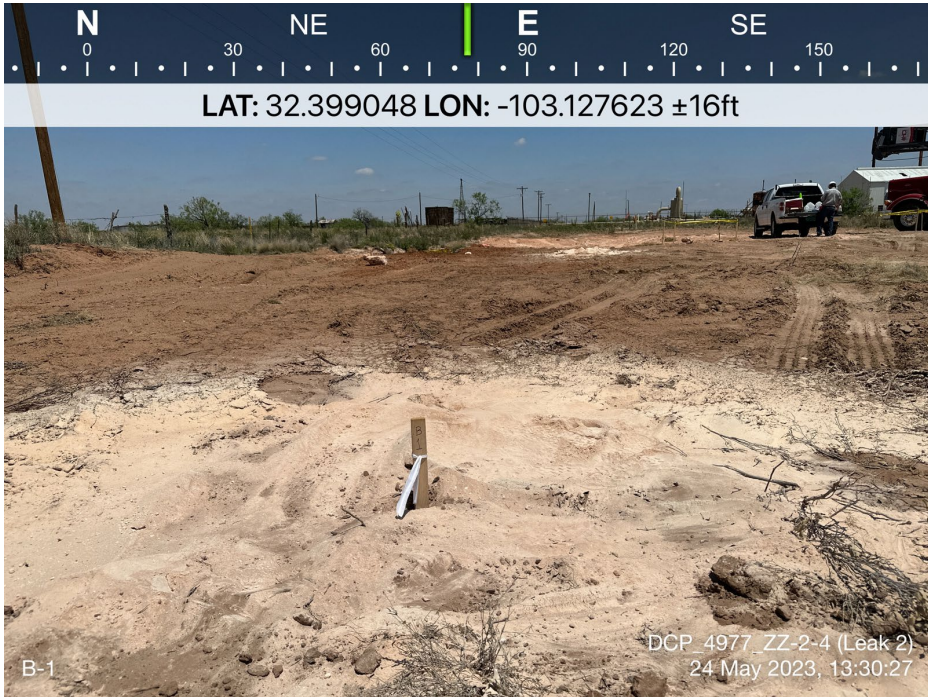


SB-3 Installation – 3/8/2018



SB-3 Installation – 3/8/2018

DCP Operating Company, LP
ZZ-2-4 Line Leak 2



DCP Operating Company, LP
ZZ-2-4 Line Leak 2



Appendix E – Photographic Log (Leak 3)

DCP Operating Company, LP

ZZ-2-4 Line Leak 3



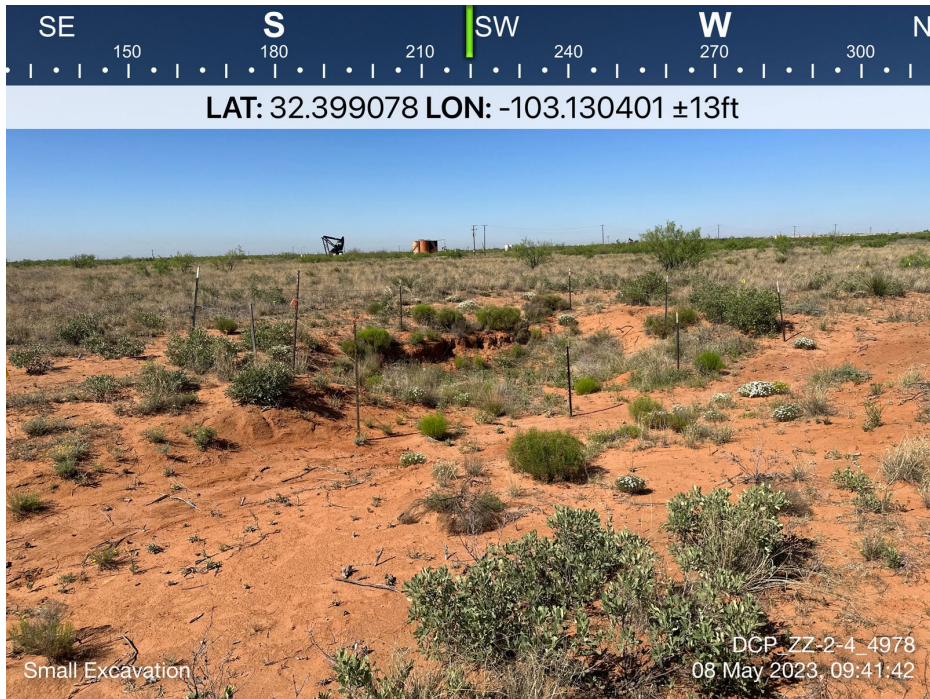
Advancing soil boring SB-2 – 3/8/2018



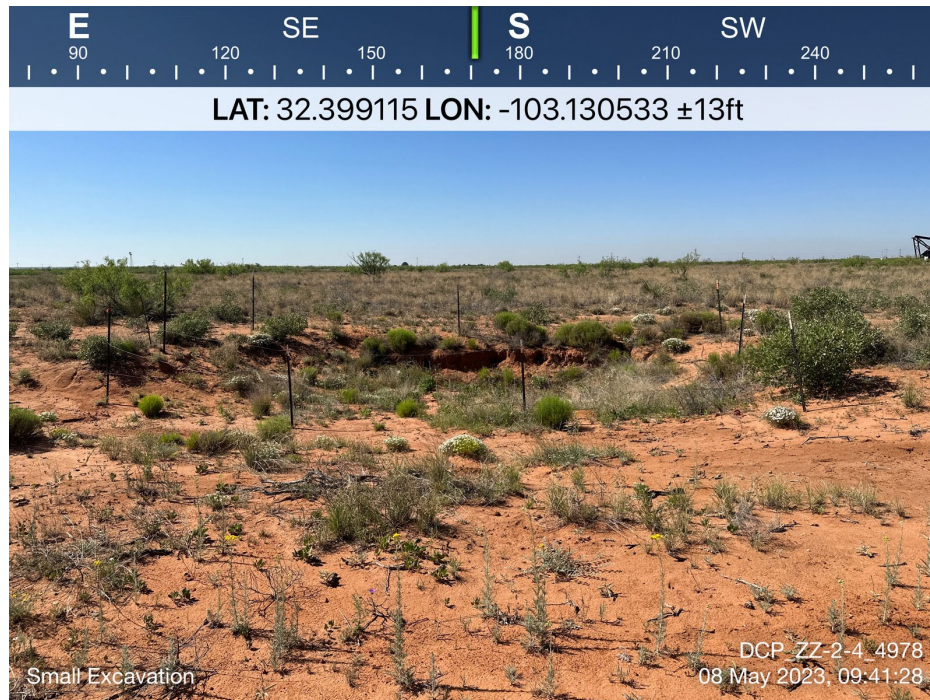
Soil boring SB-2 – 3/8/2018

DCP Operating Company, LP

ZZ-2-4 Line Leak 3



Current Excavation Extent



Current Excavation Extent

Appendix F – Certified Laboratory Analytical Reports



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

May 25, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 4976_ZZ-2-4 LINE LEAK 1

Enclosed are the results of analyses for samples received by the laboratory on 05/23/23 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 1 @ 5-7	H232635-01	Soil	23-May-23 09:10	23-May-23 15:57
B - 1 @ 10-12	H232635-02	Soil	23-May-23 09:15	23-May-23 15:57
B - 1 @ 20-22	H232635-04	Soil	23-May-23 09:25	23-May-23 15:57
B - 1 @ 30-32	H232635-06	Soil	23-May-23 09:40	23-May-23 15:57
B - 1 @ 55-57	H232635-11	Soil	23-May-23 10:42	23-May-23 15:57
B - 2 @ 15-17	H232635-14	Soil	23-May-23 11:06	23-May-23 15:57
B - 2 @ 20-22	H232635-15	Soil	23-May-23 11:10	23-May-23 15:57
B - 2 @ 35-37	H232635-18	Soil	23-May-23 11:32	23-May-23 15:57
B - 2 @ 55-57	H232635-22	Soil	23-May-23 12:15	23-May-23 15:57
B - 3 @ 10-12	H232635-24	Soil	23-May-23 13:17	23-May-23 15:57
B - 3 @ 20-22	H232635-26	Soil	23-May-23 13:24	23-May-23 15:57
B - 3 @ 30-32	H232635-28	Soil	23-May-23 13:38	23-May-23 15:57
B - 4 @ 10-12	H232635-30	Soil	23-May-23 13:54	23-May-23 15:57
B - 4 @ 25-27	H232635-33	Soil	23-May-23 14:08	23-May-23 15:57
B - 4 @ 30-32	H232635-34	Soil	23-May-23 14:18	23-May-23 15:57
B - 4 @ 40-42	H232635-36	Soil	23-May-23 14:36	23-May-23 15:57

05/25/23 - Client added analysis to sample -02 and -15 (see COC). This is the revised report and will replace the one sent on 05/24/23.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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B - 1 @ 5-7
H232635-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	192		16.0	mg/kg	4	3052407	AC	24-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052315	JH	23-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052315	JH	23-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		3052315	JH	23-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	23.4		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
DRO >C10-C28*	3120		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
EXT DRO >C28-C36	878		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	

Surrogate: 1-Chlorooctane			85.1 %	48.2-134		3052344	MS	24-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			165 %	49.1-148		3052344	MS	24-May-23	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 1 @ 10-12
H232635-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	400		16.0	mg/kg	4	3052510	AC	25-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052416	JH/	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052416	JH/	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052416	JH/	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052416	JH/	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052416	JH/	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3052416	JH/	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052415	MS	24-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3052415	MS	24-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052415	MS	24-May-23	8015B	

Surrogate: 1-Chlorooctane			115 %	48.2-134		3052415	MS	24-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			145 %	49.1-148		3052415	MS	24-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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B - 1 @ 20-22
H232635-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	3052407	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052315	JH	23-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052315	JH	23-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %		71.5-134	3052315	JH	23-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	50.2		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %		48.2-134	3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.7 %		49.1-148	3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 1 @ 30-32
H232635-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3052407	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052315	JH	23-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052315	JH	23-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %		71.5-134	3052315	JH	23-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	21.4		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.9 %		48.2-134	3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.1 %		49.1-148	3052344	MS	23-May-23	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 1 @ 55-57
H232635-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	3052407	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052315	JH	23-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052315	JH	23-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052315	JH	23-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3052315	JH	23-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	24.2		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.1 %	48.2-134		3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.8 %	49.1-148		3052344	MS	23-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 2 @ 15-17
H232635-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3052407	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<1.00		1.00	mg/kg	1000	3052315	JH	23-May-23	8021B	
Toluene*	2.83		1.00	mg/kg	1000	3052315	JH	23-May-23	8021B	
Ethylbenzene*	23.1		1.00	mg/kg	1000	3052315	JH	23-May-23	8021B	
Total Xylenes*	51.3		3.00	mg/kg	1000	3052315	JH	23-May-23	8021B	
Total BTEX	77.2		6.00	mg/kg	1000	3052315	JH	23-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %	71.5-134		3052315	JH	23-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1590		100	mg/kg	10	3052344	MS	24-May-23	8015B	
DRO >C10-C28*	6060		100	mg/kg	10	3052344	MS	24-May-23	8015B	
EXT DRO >C28-C36	1320		100	mg/kg	10	3052344	MS	24-May-23	8015B	

Surrogate: 1-Chlorooctane			168 %	48.2-134		3052344	MS	24-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			254 %	49.1-148		3052344	MS	24-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 2 @ 20-22
H232635-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3052510	AC	25-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<1.00		1.00	mg/kg	1000	3052416	JH/	24-May-23	8021B	
Toluene*	2.25		1.00	mg/kg	1000	3052416	JH/	24-May-23	8021B	
Ethylbenzene*	19.3		1.00	mg/kg	1000	3052416	JH/	24-May-23	8021B	
Total Xylenes*	36.8		3.00	mg/kg	1000	3052416	JH/	24-May-23	8021B	
Total BTEX	58.4		6.00	mg/kg	1000	3052416	JH/	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			131 %	71.5-134		3052416	JH/	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1920		100	mg/kg	10	3052415	MS	25-May-23	8015B	
DRO >C10-C28*	8490		100	mg/kg	10	3052415	MS	25-May-23	8015B	
EXT DRO >C28-C36	1390		100	mg/kg	10	3052415	MS	25-May-23	8015B	

Surrogate: 1-Chlorooctane			243 %	48.2-134		3052415	MS	25-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			202 %	49.1-148		3052415	MS	25-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 2 @ 35-37
H232635-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	3052407	AC	24-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	0.203		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	0.653		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	0.857		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	22.7		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
DRO >C10-C28*	312		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
EXT DRO >C28-C36	67.2		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	

Surrogate: 1-Chlorooctane			116 %	48.2-134		3052344	MS	24-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			129 %	49.1-148		3052344	MS	24-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 2 @ 55-57
H232635-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	28.8		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.3 %	48.2-134		3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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B - 3 @ 10-12
H232635-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	125		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	19.1		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

Surrogate: 1-Chlorooctane			87.9 %	48.2-134		3052344	MS	23-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			97.1 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 3 @ 20-22
H232635-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		71.5-134	3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	327		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	79.9		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.6 %		48.2-134	3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %		49.1-148	3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 3 @ 30-32
H232635-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	256		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	151		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	38.6		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

Surrogate: 1-Chlorooctane			90.5 %	48.2-134		3052344	MS	23-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.4 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 4 @ 10-12
H232635-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

Surrogate: 1-Chlorooctane			91.4 %	48.2-134		3052344	MS	23-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			95.1 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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B - 4 @ 25-27
H232635-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	76.9		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	11.7		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

Surrogate: 1-Chlorooctane			77.0 %	48.2-134		3052344	MS	23-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			83.7 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 4 @ 30-32
H232635-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	23-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.0 %	48.2-134		3052344	MS	23-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %	49.1-148		3052344	MS	23-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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**B - 4 @ 40-42
H232635-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	3052408	AC	24-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3052345	JH	24-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3052345	JH	24-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3052345	JH	24-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3052345	JH	24-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3052344	MS	24-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.2 %	48.2-134		3052344	MS	24-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.2 %	49.1-148		3052344	MS	24-May-23	8015B	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3052407 - 1:4 DI Water

Blank (3052407-BLK1)				Prepared & Analyzed: 24-May-23						
Chloride	ND	16.0	mg/kg							
LCS (3052407-BS1)				Prepared & Analyzed: 24-May-23						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3052407-BSD1)				Prepared & Analyzed: 24-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

Batch 3052408 - 1:4 DI Water

Blank (3052408-BLK1)				Prepared & Analyzed: 24-May-23						
Chloride	ND	16.0	mg/kg							
LCS (3052408-BS1)				Prepared & Analyzed: 24-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3052408-BSD1)				Prepared & Analyzed: 24-May-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

Batch 3052510 - 1:4 DI Water

Blank (3052510-BLK1)				Prepared & Analyzed: 25-May-23						
Chloride	ND	16.0	mg/kg							
LCS (3052510-BS1)				Prepared & Analyzed: 25-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120			

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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3052510 - 1:4 DI Water

LCS Dup (3052510-BSD1)

Prepared & Analyzed: 25-May-23

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3052315 - Volatiles

Blank (3052315-BLK1)		Prepared & Analyzed: 23-May-23								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			

LCS (3052315-BS1)		Prepared & Analyzed: 23-May-23								
Benzene	2.29	0.050	mg/kg	2.00		115	81.4-118			
Toluene	2.27	0.050	mg/kg	2.00		113	88.7-121			
Ethylbenzene	2.21	0.050	mg/kg	2.00		111	86.1-120			
m,p-Xylene	4.57	0.100	mg/kg	4.00		114	88.2-124			
o-Xylene	2.20	0.050	mg/kg	2.00		110	84.9-118			
Total Xylenes	6.77	0.150	mg/kg	6.00		113	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	71.5-134			

LCS Dup (3052315-BS1)		Prepared & Analyzed: 23-May-23								
Benzene	2.38	0.050	mg/kg	2.00		119	81.4-118	3.72	15.8	BS-3
Toluene	2.36	0.050	mg/kg	2.00		118	88.7-121	4.06	15.9	
Ethylbenzene	2.30	0.050	mg/kg	2.00		115	86.1-120	3.96	16	
m,p-Xylene	4.76	0.100	mg/kg	4.00		119	88.2-124	4.09	16.2	
o-Xylene	2.26	0.050	mg/kg	2.00		113	84.9-118	2.70	16.7	
Total Xylenes	7.02	0.150	mg/kg	6.00		117	87.3-122	3.64	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		97.0	71.5-134			

Batch 3052345 - Volatiles

Blank (3052345-BLK1)		Prepared: 23-May-23 Analyzed: 24-May-23								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3052345 - Volatiles

Blank (3052345-BLK1) Prepared: 23-May-23 Analyzed: 24-May-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

LCS (3052345-BS1) Prepared: 23-May-23 Analyzed: 24-May-23

Benzene	2.30	0.050	mg/kg	2.00		115	81.4-118			
Toluene	2.26	0.050	mg/kg	2.00		113	88.7-121			
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	86.1-120			
m,p-Xylene	4.51	0.100	mg/kg	4.00		113	88.2-124			
o-Xylene	2.16	0.050	mg/kg	2.00		108	84.9-118			
Total Xylenes	6.67	0.150	mg/kg	6.00		111	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0482		mg/kg	0.0500		96.4	71.5-134			

LCS Dup (3052345-BSD1) Prepared: 23-May-23 Analyzed: 24-May-23

Benzene	2.35	0.050	mg/kg	2.00		118	81.4-118	2.44	15.8	
Toluene	2.34	0.050	mg/kg	2.00		117	88.7-121	3.44	15.9	
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	86.1-120	3.93	16	
m,p-Xylene	4.68	0.100	mg/kg	4.00		117	88.2-124	3.80	16.2	
o-Xylene	2.23	0.050	mg/kg	2.00		111	84.9-118	2.89	16.7	
Total Xylenes	6.91	0.150	mg/kg	6.00		115	87.3-122	3.51	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	71.5-134			

Batch 3052416 - Volatiles

Blank (3052416-BLK1) Prepared & Analyzed: 24-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			

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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3052416 - Volatiles

LCS (3052416-BS1)

Prepared & Analyzed: 24-May-23

Benzene	2.07	0.050	mg/kg	2.00		104	81.4-118			
Toluene	2.13	0.050	mg/kg	2.00		106	88.7-121			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	86.1-120			
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	88.2-124			
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.9-118			
Total Xylenes	6.30	0.150	mg/kg	6.00		105	87.3-122			

Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			
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LCS Dup (3052416-BS1)

Prepared & Analyzed: 24-May-23

Benzene	2.16	0.050	mg/kg	2.00		108	81.4-118	3.96	15.8	
Toluene	2.22	0.050	mg/kg	2.00		111	88.7-121	4.23	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120	4.16	16	
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124	3.93	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.9-118	2.89	16.7	
Total Xylenes	6.53	0.150	mg/kg	6.00		109	87.3-122	3.60	16.3	

Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			
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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 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3052344 - General Prep - Organics

Blank (3052344-BLK1)		Prepared & Analyzed: 23-May-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.1		mg/kg	49.6		76.9	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.7	49.1-148			

LCS (3052344-BS1)		Prepared & Analyzed: 23-May-23								
GRO C6-C10	177	10.0	mg/kg	200		88.6	78.5-124			
DRO >C10-C28	174	10.0	mg/kg	200		87.1	72.5-126			
Total TPH C6-C28	351	10.0	mg/kg	400		87.9	77.6-123			
Surrogate: 1-Chlorooctane	42.6		mg/kg	49.6		86.0	48.2-134			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.6	49.1-148			

LCS Dup (3052344-BSD1)		Prepared & Analyzed: 23-May-23								
GRO C6-C10	190	10.0	mg/kg	200		95.1	78.5-124	7.10	17.7	
DRO >C10-C28	186	10.0	mg/kg	200		92.8	72.5-126	6.34	21	
Total TPH C6-C28	376	10.0	mg/kg	400		94.0	77.6-123	6.73	18.5	
Surrogate: 1-Chlorooctane	45.7		mg/kg	49.6		92.2	48.2-134			
Surrogate: 1-Chlorooctadecane	50.7		mg/kg	50.0		101	49.1-148			

Batch 3052415 - General Prep - Organics

Blank (3052415-BLK1)		Prepared & Analyzed: 24-May-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.7		mg/kg	49.6		92.3	48.2-134			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: 4976_ZZ-2-4 LINE LEAK 1 Project Number: 4976 Project Manager: KYLE NORMAN Fax To:	Reported: 25-May-23 09:54
---	---	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3052415 - General Prep - Organics

LCS (3052415-BS1)

Prepared & Analyzed: 24-May-23

GRO C6-C10	201	10.0	mg/kg	200		100	78.5-124			
DRO >C10-C28	216	10.0	mg/kg	200		108	72.5-126			
Total TPH C6-C28	417	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	51.4		mg/kg	49.6		104	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			

LCS Dup (3052415-BSD1)

Prepared & Analyzed: 24-May-23

GRO C6-C10	182	10.0	mg/kg	200		91.2	78.5-124	9.70	17.7	
DRO >C10-C28	190	10.0	mg/kg	200		94.9	72.5-126	13.1	21	
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	77.6-123	11.5	18.5	
Surrogate: 1-Chlorooctane	50.5		mg/kg	49.6		102	48.2-134			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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 (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		Attn: Kyle Norman															
Phone #: 575-318-5017		Address: 2620 W. Marland															
Project #: 4976		City: Hobbs															
Project Name: 4976_ZZ-2-4 Line Leak 1		State: NM Zip: 88240															
Project Location:		Phone #: 575-318-5017															
Sampler Name: Brett Dennis		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush				
	B-1 @ 5-7	G		SOIL			5/23/23	0910	X	X			X				
	B-1 @ 10-12	G		WASTEWATER			5/23/23	0915			X						
	B-1 @ 15-17	G		SLUDGE			5/23/23	0920			X						
	B-1 @ 20-22	G		OTHER :			5/23/23	0925	X	X							
	B-1 @ 25-27	G		ACID/BASE:			5/23/23	0930			X						
	B-1 @ 30-32	G		ICE / COOL			5/23/23	0940	X	X							
	B-1 @ 35-37	G		OTHER :			5/23/23	0945			X						
	B-1 @ 40-42	G					5/23/23	0952			X						
	B-1 @ 45-47	G					5/23/23	1003			X						
	B-1 @ 50-52	G					5/23/23	1015			X						
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Relinquished By:	Date: 5/23/23	Received By:	Time: 1557														
Relinquished By:	Date:	Received By:	Time:														
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113	Sample Condition Cool	Intact	Checked By: (Initials)													
	6.0c/5.4c	Intact	Yes	AP.													
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Addtl Phone #: _____ Addtl Fax #: _____ REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; fflores@tasman-geo.com;																	

CL, TPH, BTEX added 5/24/23

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences Project Manager: Kyle Norman Address: 2620 W. Marland Blvd. City: Hobbs Phone #: 575-318-5017 Project #: 4976 Project Name: 4976 ZZ-2-4 Line Leak 1 Project Location: Sampler Name: Brett Dennis FOR LAB USE ONLY										BILL TO P.O. #: Company: Tasman Geo Attn: Kyle Norman Address: 2620 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: 575-318-5017 Fax #:					ANALYSIS REQUEST					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush							
H232635	B-1 @ 55-57	G		GROUNDWATER	SOIL		5/23/23	1042	X	X			X							
	B-2 @ 5-7	G		WASTEWATER	OIL		5/23/23	1057												
	B-2 @ 10-12	G			SLUDGE		5/23/23	1100												
	B-2 @ 15-17	G			OTHER :		5/23/23	1106	X	X			X							
	B-2 @ 20-22	G			ACID/BASE:		5/23/23	1110												
	B-2 @ 25-27	G			ICE / COOL		5/23/23	1117												
	B-2 @ 30-32	G			OTHER :		5/23/23	1125												
	B-2 @ 35-37	G					5/23/23	1132	X	X			X							
	B-2 @ 40-42	G					5/23/23	1140												
	B-2 @ 45-47	G					5/23/23	1150												
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Relinquished By:	Date:	Time:	Received By:	Phone Result:	Fax Result:	REMARKS:														
<i>[Signature]</i>	5/23/23	1557	<i>[Signature]</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CL, TPH, BTEX added 5/24/23 8:00														
Delivered By: (Circle One)	UPS	Bus	Other	Sample Condition Cool	Intact	Checked By:														
<input checked="" type="checkbox"/> UPS				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>[Signature]</i>														



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences

BILL TO

ANALYSIS REQUEST

Project Manager: Kyle Norman
 Address: 2620 W. Marland Blvd.
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-318-5017 Fax #:
 Project #: 4976 Project Owner: Foundation Energy
 Project Name: 4976 ZZ-2-4 Line Leak 1
 Project Location:
 Sampler Name: Brett Dennis
 P.O. #: Company: Tasman Geo
 Attn: Kyle Norman
 Address: 2620 W. Marland
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-318-5017
 Fax #:

Lab I.D.	Sample I.D.	(G)GRAB OR (C)COMP.	# CONTAINERS	MATRIX							PRESERV.	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
H732035	B-2 @ 50-52	G		X								5/23/23	1202					X
	B-2 @ 55-57	G		X								5/23/23	1215	X	X			X
	B-3 @ 5-7	G		X								5/23/23	1313					X
	B-3 @ 10-12	G		X								5/23/23	1317	X	X			X
	B-3 @ 15-17	G		X								5/23/23	1320					X
	B-3 @ 20-22	G		X								5/23/23	1324	X	X			X
	B-3 @ 25-27	G		X								5/23/23	1330					X
	B-3 @ 30-32	G		X								5/23/23	1338	X	X			X
	B-4 @ 5-7	G		X								5/23/23	1350					X
	B-4 @ 10-12	G		X								5/23/23	1354	X	X			X

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Relinquished By: *[Signature]* Date: 5/23/23 Received By: *[Signature]* Date: 5/23/23

Relinquished By: *[Signature]* Date: 5/23/23 Received By: *[Signature]* Date: 5/23/23

Delivered By: (Circle One) UPS Bus Other: *le.02/5.4c*

Sampler - UPS - Bus - Other: *#113*

Sample Condition Cool Intact No No

CHECKED BY: *[Signature]* (Initials) *YO.*

Phone Result: Yes No Add'l Phone #: *505-393-2326*

Fax Result: Yes No Add'l Fax #: *505-393-2476*

REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences		BILL TO		P.O. #:									
Project Manager: Kyle Norman		Company: Tasman Geo		FAX #:									
Address: 2620 W. Marland Blvd.		Attn: Kyle Norman		Address: 2620 W. Marland									
City: Hobbs		State: NM Zip: 88240		City: Hobbs									
Phone #: 575-318-5017		Project Name: Foundation Energy		State: NM Zip: 88240									
Fax #: 575-318-5017		Project Location:		Phone #: 575-318-5017									
Project #: 4976		Sampler Name: Brett Dennis		FAX #:									
Project Name: 4976_ZL2-4 Line Leak 1		ANALYSIS REQUEST											
Project Location:		TPH 8015 Ext											
Sampler Name: Brett Dennis		BTEX											
FOR LAB USE ONLY		Chlorides											
		Hold											
		24-hr Rush											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush
H23235	B-4 @ 15-17	G	X	GROUNDWATER			5/23/23	1358					
	B-4 @ 20-22	G	X	WASTEWATER			5/23/23	1400					
	B-4 @ 25-27	G	X	SOIL			5/23/23	1408	X	X	X		
	B-4 @ 30-32	G	X	OIL			5/23/23	1418	X	X	X		
	B-4 @ 35-37	G	X	SLUDGE			5/23/23	1424	X	X	X		
	B-4 @ 40-42	G	X	OTHER :	ACID/BASE:	ICE / COOL	5/23/23	1436	X	X	X		
				OTHER :									
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Relinquished By:	Date: 5/23/23	Received By:	Time: 1557	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; iflores@tasman-geo.com;									
Relinquished By:	Date:	Received By:	Time:	Sample Condition Cool: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) V.D.									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476												



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

May 25, 2023

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

RE: 4976_ZZ-2-4 LINE LEAK 1

Enclosed are the results of analyses for samples received by the laboratory on 05/24/23 15:21.

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 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 5 @ 10-12 (H232653-02)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 5 @ 35-37 (H232653-07)

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	05/24/2023	ND	2.07	104	2.00	3.96		
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16		
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60		
Total BTEX	<0.300	0.300	05/24/2023	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	288	16.0	05/25/2023	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	05/24/2023	ND	201	100	200	9.70		
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1		
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND						

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 5 @ 50-52 (H232653-10)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 6 @ 10-12 (H232653-12)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 6 @ 20-22 (H232653-14)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B - 6 @ 30-32 (H232653-16)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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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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

1042

Company Name: Tasman Geosciences Project Manager: Kyle Norman Address: 2620 W. Marland Blvd. City: Hobbs Phone #: 575-318-5017 Project #: 4976 Project Name: 4976_ZZ-2-4 Line Leak 1 Sampler Name: Brett Dennis		State: NM Zip: 88240 City: Hobbs State: NM Zip: 88240 Phone #: 575-318-5017 Fax #:		BILL TO P.O. #: Company: Tasman Geo Attn: Kyle Norman Address: 2620 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: 575-318-5017 Fax #:		ANALYSIS REQUEST		
FOR LAB USE ONLY Lab I.D.: HB32653 Sample I.D.:		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. SAMPLING	DATE TIME	TPH 8015 Ext BTEX Chlorides Hold 24-hr Rush	Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Add'l Fax #:	
1	B-5 @ 5-7	G	X	X	5/24/23	0824	X	
2	B-5 @ 10-12	G	X	X	5/24/23	0826	X	X
3	B-5 @ 15-17	G	X	X	5/24/23	0829	X	
4	B-5 @ 20-22	G	X	X	5/24/23	0834	X	
5	B-5 @ 25-27	G	X	X	5/24/23	0846	X	
6	B-5 @ 30-32	G	X	X	5/24/23	0852	X	
7	B-5 @ 35-37	G	X	X	5/24/23	0900	X	X
8	B-5 @ 40-42	G	X	X	5/24/23	0909	X	X
9	B-5 @ 45-47	G	X	X	5/24/23	0920	X	X
10	B-5 @ 50-52	G	X	X	5/24/23	0933	X	X

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Relinquished By: *[Signature]* Date: 5/24/23 Received By: *[Signature]* Date: 5/24/23
 Relinquished By: *[Signature]* Date: 5/21/21 Received By: *[Signature]* Date: 5/21/21

Delivered By: (Circle One) UPS Bus Other: *Hand Delivered*
 Sample Condition Cool Intact Damaged Yes No No

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

Phone Result: Yes No
 Fax Result: Yes No
 REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;



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

2 of 2

Company Name: Tasman Geosciences		BILL TO		ANALYSIS REQUEST							
Project Manager: Kyle Norman		P.O. #:									
Address: 2620 W. Marland Blvd.		Company: Tasman Geo									
City: Hobbs		Attn: Kyle Norman									
Phone #: 575-318-5017		Address: 2620 W. Marland									
Fax #: 575-318-5017		City: Hobbs									
Project #: 4976		State: NM Zip: 88240									
Project Name: 4976_ZZ-2-4 Line Leak 1		Phone #: 575-318-5017									
Project Location:		Fax #:									
Sampler Name: Brett Dennis											
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush
H237653	B-6 @ 5-7	G		SOIL	ICE / COOL						
11	B-6 @ 10-12	G		WASTEWATER	OTHER :	DATE					
12	B-6 @ 15-17	G		SOIL	ACID/BASE:	TIME					
13	B-6 @ 20-22	G		SLUDGE	OTHER :						
14	B-6 @ 25-27	G		OTHER :							
15	B-6 @ 30-32	G									
16											

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Relinquished By: <i>[Signature]</i>	Date: 5/21/23	Received By: <i>[Signature]</i>	Date: 5/21/23
Relinquished By: <i>[Signature]</i>	Date: 5/15/21	Received By: <i>[Signature]</i>	Date: 5/21/23
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4113</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i> (Initials)	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Addtl Phone #: Addtl Fax #: REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; flores@tasman-geo.com;

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



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

May 30, 2023

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

RE: 4976_ZZ-2-4 LINE LEAK 1

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 12:21.

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 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B - 7 @ 2-4' (H232695-02)

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	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	221	110	200	0.152	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	200	99.8	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B - 7 @ 8-9' (H232695-05)

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	05/26/2023	ND	2.00	100	2.00	7.08		
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90		
Total BTEX	<0.300	0.300	05/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	221	110	200	0.152		
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	200	99.8	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B - 8 @ 2-4' (H232695-07)

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	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	221	110	200	0.152	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	200	99.8	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4976_ZZ-2-4 LINE LEAK 1	Sampling Condition:	Cool & Intact
Project Number:	4976	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B - 8 @ 6-8' (H232695-09)

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	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	221	110	200	0.152	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	200	99.8	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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		P.O. #:		ANALYSIS REQUEST												
Project Manager: Kyle Norman		Company: Tasman Geo		City: Hobbs														
Address: 2620 W. Marland Blvd.		State: NM Zip: 88240		Address: 2620 W. Marland														
City: Hobbs		Fax #: 575-318-5017		City: Hobbs														
Phone #: 575-318-5017		Project Owner: DCP Midstream		State: NM Zip: 88240														
Project #:		Project Location:		Phone #: 575-318-5017														
Project Name: 4976_ZZ-2-4 (Leak 1)		Sampler Name: Kendon Stark		Fax #:														
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	24-hr Rush	Hold		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
H232695	B-7 @ 0-2'	G	1	X									5/26/23	0849	X	X	X	X
	B-7 @ 2-4'	G	1	X									5/26/23	0851	X	X	X	X
	B-7 @ 4-6'	G	1	X									5/26/23	0853	X	X	X	X
	B-7 @ 6-8'	G	1	X									5/26/23	0855	X	X	X	X
	B-7 @ 8-9'	G	1	X									5/26/23	0859	X	X	X	X
	B-8 @ 0-2'	G	1	X									5/26/23	0904	X	X	X	X
	B-8 @ 2-4'	G	1	X									5/26/23	0907	X	X	X	X
	B-8 @ 4-6'	G	1	X									5/26/23	0911	X	X	X	X
	B-8 @ 6-8'	G	1	X									5/26/23	0914	X	X	X	X

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Relinquished By: <i>[Signature]</i>	Date: 5/26/23	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Date: _____	Received By: _____	REMARKS: _____	Add'l Fax #: _____

Delivered By: (Circle One) UPS Bus Other: *8411 00-00*
 Sampler - UPS - Bus - Other: *-9.0L #113*
 Sample Condition Cool Intact Yes No No No
 CHECKED BY: *[Signature]* (Initials) *SR*

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



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

May 25, 2023

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

RE: 4977_ZZ-2-4 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 05/24/23 15:21.

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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 1 @ 5-7 (H232654-01)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	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	32.0	16.0	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 1 @ 20-22 (H232654-04)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 1 @ 30-32 (H232654-06)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 2 @ 15-17 (H232654-09)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.24	0.500	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	8.14	0.500	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	26.8	0.500	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	81.4	1.50	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	118	3.00	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/25/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1870	50.0	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	6140	50.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	980	50.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 242 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 2 @ 30-32 (H232654-12)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	0.174	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	0.449	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	1.72	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	2.34	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	05/25/2023	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*	34.2	10.0	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	370	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	53.2	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 2 @ 40-42 (H232654-14)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	11.5	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 3 @ 5-7 (H232654-15)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 3 @ 15-17 (H232654-17)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B - 3 @ 30-32 (H232654-20)

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	05/24/2023	ND	2.07	104	2.00	3.96	
Toluene*	<0.050	0.050	05/24/2023	ND	2.13	106	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/24/2023	ND	2.04	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/24/2023	ND	6.30	105	6.00	3.60	
Total BTEX	<0.300	0.300	05/24/2023	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	112	16.0	05/25/2023	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	05/24/2023	ND	201	100	200	9.70	
DRO >C10-C28*	39.3	10.0	05/24/2023	ND	216	108	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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

1072

Company Name: Tasman Geosciences		BILL TO		ANALYSIS REQUEST												
Project Manager: Kyle Norman	Address: 2620 W. Marland Blvd.	City: Hobbs	State: NM Zip: 88240	P.O. #:	Company: Tasman Geo											
Phone #: 575-318-5017	Fax #:	Project Owner: DCP Midstream	City: Hobbs	State: NM Zip: 88240	Address: 2620 W. Marland											
Project #: 4977	Project Location: 4977 ZZ-2-4 Line Leak 2	Sampler Name: Brett Dennis	Phone #: 575-318-5017	Fax #:												
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H232654	B-1 @ 5-7	G		X							5/24/23	1042	X	X		X
	B-1 @ 10-12	G		X							5/24/23	1046			X	
	B-1 @ 15-17	G		X							5/24/23	1049			X	
	B-1 @ 20-22	G		X							5/24/23	1053	X	X		X
	B-1 @ 25-27	G		X							5/24/23	1100			X	
	B-1 @ 30-32	G		X							5/24/23	1107	X	X		X
	B-2 @ 5-7	G		X							5/24/23	1156			X	
	B-2 @ 10-12	G		X							5/24/23	1159			X	
	B-2 @ 15-17	G		X							5/24/23	1203	X	X		X
	B-2 @ 20-22	G		X							5/24/23	1206	X			X

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Relinquished By: <i>[Signature]</i>	Date: 5/24/23	Received By: <i>[Signature]</i>	Date: 5/24/23
Relinquished By: <i>[Signature]</i>	Date: 15/12/21	Received By: <i>[Signature]</i>	Date: 5/24/23

Delivered By: (Circle One) UPS - Bus - Other: *H. Lee / 4/10/21*

Sample Condition Cool Intact No No

CHECKED BY: (Initials) *[Signature]*

REMARKS: Yes No No No

Phone Result: Yes No No No

Fax Result: Yes No No No

email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; fflores@tasman-geo.com;

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Tasman Geosciences		BILL TO		ANALYSIS REQUEST							
Project Manager: Kyle Norman		P.O. #:									
Address: 2620 W. Marland Blvd.		Company: Tasman Geo									
City: Hobbs		Attn: Kyle Norman									
Phone #: 575-318-5017		Address: 2620 W. Marland									
Project #: 4977		City: Hobbs									
Project Name: 4977_ZL2-4 Line Leak 2		State: NM Zip: 88240									
Project Location:		Phone #: 575-318-5017									
Sampler Name: Brett Dennis		Fax #:									
FOR LAB USE ONLY		PRESERV.		SAMPLING							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	Hold	24-hr Rush
H232654				GROUNDWATER	5/24/23	1213					
11	B-2 @ 25-27	G		WASTEWATER	5/24/23	1221	X	X			X
12	B-2 @ 30-32	G		SOIL	5/24/23	1229	X	X			X
13	B-2 @ 35-37	G		OIL	5/24/23	1229	X	X			X
14	B-2 @ 40-42	G		SLUDGE	5/24/23	1236	X	X			X
15	B-3 @ 5-7	G		OTHER :	5/24/23	1251	X	X			X
16	B-3 @ 10-12	G		ACID/BASE:	5/24/23	1254	X	X			X
17	B-3 @ 15-17	G		ICE / COOL	5/24/23	1256	X	X			X
18	B-3 @ 20-22	G		OTHER :	5/24/23	1300	X	X			X
19	B-3 @ 25-27	G			5/24/23	1306	X	X			X
20	B-3 @ 30-32	G			5/24/23	1312	X	X			X

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Relinquished By: <i>[Signature]</i>	Date: 5/24/23	Received By: <i>[Signature]</i>	Time: 15:21
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No No <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i> (Initials)	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;		Add'l Phone #: _____ Add'l Fax #: _____	

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



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

May 26, 2023

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

RE: 4977_ZZ-2-4 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 05/25/23 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 4 @ 30-32' (H232673-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.12	0.200	05/26/2023	ND	2.21	111	2.00	2.06	
Toluene*	2.37	0.200	05/26/2023	ND	2.17	108	2.00	2.79	QM-07
Ethylbenzene*	15.5	0.200	05/26/2023	ND	2.11	106	2.00	1.78	QM-07
Total Xylenes*	49.3	0.600	05/26/2023	ND	6.41	107	6.00	1.54	QM-07
Total BTEX	68.2	1.20	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1270	50.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	4700	50.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	654	50.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 180 % 48.2-134

Surrogate: 1-Chlorooctadecane 194 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 4 @ 45-47' (H232673-09)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	0.099	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	0.547	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	2.25	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	2.89	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 170 % 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	288	16.0	05/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.3	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	339	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	32.2	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 4 @ 55-57' (H232673-11)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	0.063	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	0.301	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	1.34	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	1.70	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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	05/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.9	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	434	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	56.8	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 5 @ 10-12' (H232673-13)

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	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1420	16.0	05/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 5 @ 20-22' (H232673-15)

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	05/25/2023	ND	2.21	111	2.00	2.06		
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79		
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78		
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54		
Total BTEX	<0.300	0.300	05/25/2023	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	112	16.0	05/26/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	206	103	200	0.931		
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	212	106	200	1.07		
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND						

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 5 @ 30-32' (H232673-17)

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	05/25/2023	ND	2.21	111	2.00	2.06		
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79		
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78		
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54		
Total BTEX	<0.300	0.300	05/25/2023	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	208	16.0	05/26/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	206	103	200	0.931		
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	212	106	200	1.07		
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Ahlens, 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		Attn: Kyle Norman									
Phone #: 575-318-5017		Address: 2620 W. Marland									
Fax #: _____		City: Hobbs									
Project #: _____		State: NM zip: 88240									
Project Name: 4977_ZZ-2-4 (Leak 2)		Phone #: 575-318-5017									
Project Location: _____		Fax #: _____									
Sampler Name: Kendon Stark		PRESERV: <input checked="" type="checkbox"/>									
FOR LAB USE ONLY		SAMPLING									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	24-hr Rush	Hold
H032A1073	B-4 @ 5-7'	G 1	1	SOIL	5/25/23	820					X
	B-4 @ 10-12'	G 1	1	SOIL	5/25/23	823					X
	B-4 @ 15-17'	G 1	1	SOIL	5/25/23	825					X
	B-4 @ 20-22'	G 1	1	SOIL	5/25/23	828					X
	B-4 @ 25-27'	G 1	1	SOIL	5/25/23	836					X
	B-4 @ 30-32'	G 1	1	SOIL	5/25/23	844	X	X	X		
	B-4 @ 35-37'	G 1	1	SOIL	5/25/23	853					X
	B-4 @ 40-42'	G 1	1	SOIL	5/25/23	859					X
	B-4 @ 45-47'	G 1	1	SOIL	5/25/23	910	X	X	X		
	B-4 @ 50-52'	G 1	1	SOIL	5/25/23	920					X

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Relinquished By: *Kendon Stark* Date: 5/25/23 Received By: *Spodkigney* Time: 1430

Delivered By: (Circle One) UPS Bus Other: *-2.1L @ 20.0L* Sample Condition Cool Intact Yes No Yes No

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

REMARKS: Phone Result: Yes No Fax Result: Yes No Add'l Phone #: Add'l Fax #:

email results: knorman@tasman-geo.com, bdeninis@tasman-geo.com; lflores@tasman-geo.com; kstark@tasman-geo.com



ARDINAL LABORATORIES
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 (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		Attn: Kyle Norman									
Phone #: 575-318-5017		Address: 2620 W. Marland									
Fax #: _____		City: Hobbs									
Project #: _____		State: NM Zip: 88240									
Project Name: 4977_ZZ-2-4 (Leak 2)		Phone #: 575-318-5017									
Project Location: _____		Fax #: _____									
Sampler Name: Kendon Stark		PRESERV. <input checked="" type="checkbox"/>									
FOR LAB USE ONLY		SAMPLING									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	TPH 8015 Ext	BTEX	Chlorides	24-hr Rush	Hold
11	B-4 @ 55-57'	G 1	1	SOIL	5/25/23	932	X	X	X		
12	B-5 @ 5-7'	G 1	1	SOIL	5/25/23	943	X	X	X		
13	B-5 @ 10-12'	G 1	1	SOIL	5/25/23	946	X	X	X		
14	B-5 @ 15-17'	G 1	1	SOIL	5/25/23	948	X	X	X		
15	B-5 @ 20-22'	G 1	1	SOIL	5/25/23	953	X	X	X		
16	B-5 @ 25-27'	G 1	1	SOIL	5/25/23	958	X	X	X		
17	B-5 @ 30-32'	G 1	1	SOIL	5/25/23	1006	X	X	X		

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Relinquished By: _____ Date: 5/25/23 Received By: *Shodriqwey*

Delivered By: (Circle One) UPS Bus Other: *-2.7c #113*

Sample Condition Cool Intact No Yes

Checked By: *SR*

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

REMARKS: email results: knorman@tasman-geo.com; bdenmis@tasman-geo.com; lflores@tasman-geo.com;

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



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

May 30, 2023

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

RE: 4977_ZZ-2-4 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 12:21.

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 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 6 @ 6-8' (H232694-04)

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	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	05/26/2023	Sampling Date:	05/26/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	4977_ZZ-2-4 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	4977	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: B - 6 @ 10-12' (H232694-06)

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	05/26/2023	ND	2.00	100	2.00	7.08	
Toluene*	<0.050	0.050	05/26/2023	ND	1.97	98.3	2.00	7.61	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.90	95.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.83	97.2	6.00	7.90	
Total BTEX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2023	ND	400	100	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	05/26/2023	ND	221	110	200	0.152	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	200	99.8	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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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
Project Manager: Kyle Norman
Address: 2620 W. Marland Blvd.
City: Hobbs
Phone #: 575-318-5017
Project #:
Project Name: 4977 ZZ-2-4 (Leak 2)
Project Location:
Sampler Name: Kendon Stark
FOR LAB USE ONLY

Company: Tasman Geo
P.O. #:
Company: Tasman Geo
Attn: Kyle Norman
Address: 2620 W. Marland
City: Hobbs
State: NM Zip: 88240
Phone #: 575-318-5017
Fax #:

Company Name: Tasman Geosciences
Project Manager: Kyle Norman
Address: 2620 W. Marland Blvd.
City: Hobbs
Phone #: 575-318-5017
Project #:
Project Name: 4977 ZZ-2-4 (Leak 2)
Project Location:
Sampler Name: Kendon Stark
FOR LAB USE ONLY

Company Name: Tasman Geosciences
Project Manager: Kyle Norman
Address: 2620 W. Marland Blvd.
City: Hobbs
Phone #: 575-318-5017
Project #:
Project Name: 4977 ZZ-2-4 (Leak 2)
Project Location:
Sampler Name: Kendon Stark
FOR LAB USE ONLY

Company Name: Tasman Geosciences
Project Manager: Kyle Norman
Address: 2620 W. Marland Blvd.
City: Hobbs
Phone #: 575-318-5017
Project #:
Project Name: 4977 ZZ-2-4 (Leak 2)
Project Location:
Sampler Name: Kendon Stark
FOR LAB USE ONLY

Table with columns for Lab I.D., Sample I.D., Matrix (Groundwater, Wastewater, Soil, Oil, Sludge, Other), Preservation (Acid/Base, Ice/Cool, Other), Date, Time, and Analysis Request (TPH 8015 Ext, BTEX, Chlorides, 24-hr Rush, Hold).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Administrative fields including Relinquished By, Received By, Sample Condition Cool (Intact, No), Checked By, and Remarks. Includes handwritten notes like '-8.4°C - 0.0°C' and '#113'.

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



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

March 20, 2018

YVONNE BLAIR

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: ZZ - 2 - 4

Enclosed are the results of analyses for samples received by the laboratory on 03/08/18 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOIL BORE#1 @ 30'	H800694-01	Soil	08-Mar-18 08:45	08-Mar-18 15:20
SOIL BORE#1 @ 40'	H800694-02	Soil	08-Mar-18 09:00	08-Mar-18 15:20
SOIL BORE#1 @ 45'	H800694-03	Soil	08-Mar-18 09:05	08-Mar-18 15:20
SOIL BORE#1 @ 50'	H800694-04	Soil	08-Mar-18 09:10	08-Mar-18 15:20
SOIL BORE#2 @ 5'	H800694-05	Soil	08-Mar-18 09:55	08-Mar-18 15:20
SOIL BORE#2 @ 10'	H800694-06	Soil	08-Mar-18 10:10	08-Mar-18 15:20
SOIL BORE#2 @ 15'	H800694-07	Soil	08-Mar-18 10:15	08-Mar-18 15:20
SOIL BORE#3 @ 20'	H800694-08	Soil	08-Mar-18 13:00	08-Mar-18 15:20
SOIL BORE#3 @ 30'	H800694-09	Soil	08-Mar-18 13:10	08-Mar-18 15:20
SOIL BORE#3 @ 35'	H800694-10	Soil	08-Mar-18 13:15	08-Mar-18 15:20

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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**SOIL BORE#1 @ 30'
H800694-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	4.49		0.500	mg/kg	500	8030902	MS	12-Mar-18	8021B	
Toluene*	55.8		0.500	mg/kg	500	8030902	MS	12-Mar-18	8021B	
Ethylbenzene*	50.1		0.500	mg/kg	500	8030902	MS	12-Mar-18	8021B	
Total Xylenes*	136		1.50	mg/kg	500	8030902	MS	12-Mar-18	8021B	
Total BTEX	246		3.00	mg/kg	500	8030902	MS	12-Mar-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8030902	MS	12-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	2730		50.0	mg/kg	5	8031101	MS	11-Mar-18	8015B	QM-07
DRO >C10-C28*	6820		50.0	mg/kg	5	8031101	MS	11-Mar-18	8015B	QM-07
EXT DRO >C28-C36	950		50.0	mg/kg	5	8031101	MS	11-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			198 %	41-142		8031101	MS	11-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			147 %	37.6-147		8031101	MS	11-Mar-18	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	15.0		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#1 @ 40'

H800694-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Toluene*	0.222		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Ethylbenzene*	0.589		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total Xylenes*	1.99		0.150	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total BTEX	2.80		0.300	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-148		8030902	MS	12-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	91.7		10.0	mg/kg	1	8031101	MS	11-Mar-18	8015B	
DRO >C10-C28*	628		10.0	mg/kg	1	8031101	MS	11-Mar-18	8015B	
EXT DRO >C28-C36	105		10.0	mg/kg	1	8031101	MS	11-Mar-18	8015B	
Surrogate: 1-Chlorooctane			94.4 %	41-142		8031101	MS	11-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			104 %	37.6-147		8031101	MS	11-Mar-18	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#1 @ 45'

H800694-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	12-Mar-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.6 %	72-148		8030902	MS	12-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
DRO >C10-C28*	53.7		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.3 %	41-142		8031201	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.8 %	37.6-147		8031201	MS	12-Mar-18	8015B	

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:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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**SOIL BORE#1 @ 50'
H800694-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Ethylbenzene*	0.057		0.050	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total Xylenes*	0.237		0.150	mg/kg	50	8030902	MS	12-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	12-Mar-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			<i>94.9 %</i>	<i>72-148</i>		<i>8030902</i>	<i>MS</i>	<i>12-Mar-18</i>	<i>8021B</i>	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
DRO >C10-C28*	54.4		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			<i>86.1 %</i>	<i>41-142</i>		<i>8031201</i>	<i>MS</i>	<i>12-Mar-18</i>	<i>8015B</i>	
<i>Surrogate: 1-Chlorooctadecane</i>			<i>88.0 %</i>	<i>37.6-147</i>		<i>8031201</i>	<i>MS</i>	<i>12-Mar-18</i>	<i>8015B</i>	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	43.1		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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**SOIL BORE#2 @ 5'
H800694-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	72-148		8030902	MS	09-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8031201	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctane			91.3 %	41-142		8031201	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			90.8 %	37.6-147		8031201	MS	12-Mar-18	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	<10.0		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#2 @ 10'

H800694-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.2 %	72-148		8030902	MS	09-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctane			100 %	41-142		8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			103 %	37.6-147		8030901	MS	12-Mar-18	8015B	

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#2 @ 15'

H800694-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.7 %	72-148		8030902	MS	09-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctane			99.4 %	41-142		8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			97.9 %	37.6-147		8030901	MS	12-Mar-18	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	402		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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**SOIL BORE#3 @ 20'
H800694-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	0.592		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Toluene*	2.35		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Ethylbenzene*	5.82		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total Xylenes*	16.7		0.150	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total BTEX	25.4		0.300	mg/kg	50	8030902	MS	09-Mar-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			140 %	72-148		8030902	MS	09-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	498		50.0	mg/kg	5	8030901	MS	12-Mar-18	8015B	
DRO >C10-C28*	2900		50.0	mg/kg	5	8030901	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	267		50.0	mg/kg	5	8030901	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			120 %	41-142		8030901	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			154 %	37.6-147		8030901	MS	12-Mar-18	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	46.8		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#3 @ 30'

H800694-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	09-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.0 %	72-148		8030902	MS	09-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctane			102 %	41-142		8030901	MS	12-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			97.4 %	37.6-147		8030901	MS	12-Mar-18	8015B	

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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SOIL BORE#3 @ 35'

H800694-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8030902	MS	10-Mar-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8030902	MS	10-Mar-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8030902	MS	10-Mar-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8030902	MS	10-Mar-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8030902	MS	10-Mar-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.9 %	72-148		8030902	MS	10-Mar-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8030901	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.1 %	41-142		8030901	MS	12-Mar-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			88.2 %	37.6-147		8030901	MS	12-Mar-18	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	449		10.0	mg/kg wet	10	B803101	JDA	19-Mar-18	EPA300.0	
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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8030902 - Volatiles

Blank (8030902-BLK1)		Prepared & Analyzed: 09-Mar-18								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0944		mg/kg	0.100		94.4	72-148			

LCS (8030902-BS1)		Prepared & Analyzed: 09-Mar-18								
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	2.14	0.050	mg/kg	2.00		107	75.5-127			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	77.7-125			
Total Xylenes	6.38	0.150	mg/kg	6.00		106	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0916		mg/kg	0.100		91.6	72-148			

LCS Dup (8030902-BSD1)		Prepared & Analyzed: 09-Mar-18								
Benzene	2.18	0.050	mg/kg	2.00		109	79.5-124	0.293	6.5	
Toluene	2.16	0.050	mg/kg	2.00		108	75.5-127	0.920	7.02	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	77.7-125	0.952	7.83	
Total Xylenes	6.46	0.150	mg/kg	6.00		108	70.9-124	1.23	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0933		mg/kg	0.100		93.3	72-148			

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8030901 - General Prep - Organics

Blank (8030901-BLK1)		Prepared: 09-Mar-18 Analyzed: 11-Mar-18								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.1	41-142			
Surrogate: 1-Chlorooctadecane	40.1		mg/kg	50.0		80.1	37.6-147			

LCS (8030901-BS1)		Prepared: 09-Mar-18 Analyzed: 11-Mar-18								
GRO C6-C10	191	10.0	mg/kg	200		95.4	76.5-133			
DRO >C10-C28	185	10.0	mg/kg	200		92.5	72.9-138			
Total TPH C6-C28	376	10.0	mg/kg	400		94.0	78-132			
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		93.9	41-142			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.3	37.6-147			

LCS Dup (8030901-BSD1)		Prepared: 09-Mar-18 Analyzed: 11-Mar-18								
GRO C6-C10	188	10.0	mg/kg	200		93.8	76.5-133	1.70	20.6	
DRO >C10-C28	180	10.0	mg/kg	200		90.2	72.9-138	2.47	20.6	
Total TPH C6-C28	368	10.0	mg/kg	400		92.0	78-132	2.08	18	
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.6	41-142			
Surrogate: 1-Chlorooctadecane	44.2		mg/kg	50.0		88.4	37.6-147			

Batch 8031101 - General Prep - Organics

Blank (8031101-BLK1)		Prepared & Analyzed: 11-Mar-18								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.0	41-142			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.7	37.6-147			

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8031101 - General Prep - Organics

LCS (8031101-BS1)		Prepared & Analyzed: 11-Mar-18								
GRO C6-C10	192	10.0	mg/kg	200		96.2	76.5-133			
DRO >C10-C28	178	10.0	mg/kg	200		89.1	72.9-138			
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	78-132			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.3	41-142			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.6	37.6-147			

LCS Dup (8031101-BSD1)		Prepared & Analyzed: 11-Mar-18								
GRO C6-C10	191	10.0	mg/kg	200		95.4	76.5-133	0.824	20.6	
DRO >C10-C28	176	10.0	mg/kg	200		88.1	72.9-138	1.22	20.6	
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	78-132	1.02	18	
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.1	41-142			
Surrogate: 1-Chlorooctadecane	48.7		mg/kg	50.0		97.4	37.6-147			

Batch 8031201 - General Prep - Organics

Blank (8031201-BLK1)		Prepared & Analyzed: 12-Mar-18								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.7	41-142			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0		98.2	37.6-147			

LCS (8031201-BS1)		Prepared & Analyzed: 12-Mar-18								
GRO C6-C10	197	10.0	mg/kg	200		98.7	76.5-133			
DRO >C10-C28	194	10.0	mg/kg	200		96.8	72.9-138			
Total TPH C6-C28	391	10.0	mg/kg	400		97.7	78-132			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.3	41-142			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	37.6-147			

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8031201 - General Prep - Organics

LCS Dup (8031201-BSD1)

Prepared & Analyzed: 12-Mar-18

GRO C6-C10	180	10.0	mg/kg	200		89.8	76.5-133	9.44	20.6	
DRO >C10-C28	188	10.0	mg/kg	200		93.9	72.9-138	3.06	20.6	
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	78-132	6.23	18	
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.7	41-142			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.4	37.6-147			

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Analytical Results For:

DCP Midstream - Midland 10 Desta Dr., #400-W Midland TX, 79705	Project: ZZ - 2 - 4 Project Number: F210 / 710001947 Project Manager: YVONNE BLAIR Fax To: None	Reported: 20-Mar-18 15:47
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Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B803101 - General Prep - Wet Chem

Blank (B803101-BLK1)		Prepared: 15-Mar-18 Analyzed: 19-Mar-18								
Chloride	ND	10.0	mg/kg wet							
LCS (B803101-BS1)		Prepared: 15-Mar-18 Analyzed: 19-Mar-18								
Chloride	232	10.0	mg/kg wet	250		92.7	85-115			
LCS Dup (B803101-BSD1)		Prepared: 15-Mar-18 Analyzed: 19-Mar-18								
Chloride	234	10.0	mg/kg wet	250		93.6	85-115	0.992	20	

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DCP Midstream		P.O. #: 0000420682		BILL TO		ANALYSIS REQUEST									
Project Manager: Yvonne Blair/ Kyle Norman		Company: DCP MIDSTREAM													
Address: 5301 Sierra Vista Dr		Attn: YVONNE BLAIR													
City: Carlsbad		Address: 5301 SIERRA VISTA DR													
State: NM Zip: 88220		City: CARLSBAD													
Phone #: 575-361-2406		State: NM Zip: 88220													
Fax #: 575-361-2406		Phone #: 575-234-6401													
Project #: 710001947		Project Owner:													
Project Name: ZZ-24		State: NM Zip: 88220													
Project Location: F231 F210 F250 F261		Phone #: 575-234-6401													
Sampler Name: Kyle Norman		Fax #:													
<small>FOR LAB USE ONLY</small>															
Lab I.D. H800694	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING	DATE	TIME	Chlorides 300	TPH 8015 M EXT	BTEX	Texas TPH	Complete Cations/Anions	TDS
	1	Soil Bore #1 @30'	G	1	✓	✓	✓	3/8/18	6:45	✓	✓	✓	✓	✓	✓
	2	Soil Bore #1 @40'			✓	✓	✓		09:00	✓	✓	✓	✓	✓	✓
	3	Soil Bore #1 @45'			✓	✓	✓		09:05	✓	✓	✓	✓	✓	✓
	4	Soil Bore #1 @50'			✓	✓	✓		09:10	✓	✓	✓	✓	✓	✓
	5	Soil Bore #2 @5'			✓	✓	✓		09:55	✓	✓	✓	✓	✓	✓
	6	Soil Bore #2 @10'			✓	✓	✓		10:10	✓	✓	✓	✓	✓	✓
	7	Soil Bore #2 @15'			✓	✓	✓		10:15	✓	✓	✓	✓	✓	✓
	8	Soil Bore #3 @20'			✓	✓	✓		13:00	✓	✓	✓	✓	✓	✓
	9	Soil Bore #3 @30'			✓	✓	✓		13:10	✓	✓	✓	✓	✓	✓
10	Soil Bore #3 @35'			✓	✓	✓		13:15	✓	✓	✓	✓	✓	✓	

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Reinquisitioned By: <i>Mykel</i>	Date: 3/8/18	Received By: <i>Yvonne Blair</i>
Time: 3:20		
Date:		
Time:		

Delivered By: (Circle One) UPS Bus Other: *Counted - 1.052*

Sample Condition: Cool Intact Yes No Yes No No

CHECKED BY: (Initials) *Y.B.*

REMARKS: email results: ybblair@dcpmidstream.com
hconder@dcpmidstream.com
knorman@tasman-geo.com

Phone Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:

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

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 307628

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1806142302
Incident Name	NOY1806142302 ZZ-2-4 LINE (LEAKS 1, 2, AND 3) @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Plan Approved
Incident Facility	[fOY1806142103] DCP ZZ-2-4 line

Location of Release Source

Please answer all the questions in this group.

Site Name	ZZ-2-4 Line (Leaks 1, 2, and 3)
Date Release Discovered	06/16/2016
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Natural Gas Release
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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Normal Operations Pipeline (Any) Natural Gas Liquids Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	An unknown volume of natural gas condensate was released.

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QUESTIONS, Page 2

Action 307628

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
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: Stephen Weathers Title: Principal Environmental Specialist DCP Email: SWWeathers@dcpmidstream.com Date: 01/25/2024
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QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
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)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	1420
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	32550
GRO+DRO (EPA SW-846 Method 8015M)	29470
BTEX (EPA SW-846 Method 8021B or 8260B)	570
Benzene (EPA SW-846 Method 8021B or 8260B)	14.1

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	04/01/2024
On what date will (or did) the final sampling or liner inspection occur	07/01/2024
On what date will (or was) the remediation complete(d)	09/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	9000
What is the estimated volume (in cubic yards) that will be reclaimed	10000
What is the estimated surface area (in square feet) that will be remediated	9000
What is the estimated volume (in cubic yards) that will be remediated	10000

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.

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QUESTIONS, Page 4

Action 307628

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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	SOUTH MONUMENT LANDFARM [FEEM0112341194]
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.

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 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: Stephen Weathers Title: Principal Environmental Specialist DCP Email: SWWeathers@dcpmidstream.com Date: 01/25/2024
--	---

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.

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 307628

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	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
--	----

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 6

Action 307628

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	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	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 307628

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 307628
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved.	2/1/2024
amaxwell	Variance request to sample every 500 square feet is denied.	2/1/2024
amaxwell	Variance granted to collect confirmation samples every 400 square feet.	2/1/2024
amaxwell	Submit a closure report via the OCD permitting portal by June 6, 2024.	2/1/2024