

March 23, 2021

Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

 Re:
 Remediation Summary and Closure Report

 Natural Gas Gathering Line #11117 Leak Location 2

 GPS:
 Latitude 32.297758

 LUL "P", Sec. 14, T23S, R26E

 Eddy County, New Mexico

 NMOCD Ref. No.
 NRM2016954249

Tasman Geosciences, Inc. (Tasman), on behalf of DCP Operating Company, LP (DCP), has prepared this Remediation Summary and Closure Report for the condensate and natural gas Release Site known as the Natural Gas Gathering Line #11117 Leak Location 2. Details of the release are summarized below:

RELEASE DETAILS								
Type of Release:	Natural Gas, Condensate	Volume of Release:	6 bbls					
Type of Release.	Natural Gas, condensate	Volume Recovered:	bbls					
Source of Release:	6" Steel Gas Gathering Pipeline	Date of Release:	Date of Discovery:	7/19/19				
Was Immediate Notice Given?	No	If, YES, to Whom?						
Was a Watercourse Reached?	No	If YES, Volume Impacting t	he Watercourse:	N/A				
Surface Owner: Mor	ntclair Development Corporation	Mineral Owner:	N/A					

Describe Cause of Problem and Remedial Action Taken:

Seeping natural gas was discovered as a result of a 6-inch diameter steel natural gas gathering pipeline leak (small hole under pressure). Upon discovery of the release on July 19, 2019, a DCP maintenance crew performed initial response actions in which impacted soil at the point of release were excavated and the pipeline leak was repaired. Between July 29 and 31, 2019, DCP maintenance conducted additional remedial activities with Tasman oversite, in which the previously excavated impacted soil placed within the relevant pipeline right of way was loaded into haul trucks and hauled, under manifest, to a New Mexico Oil Conservation Division (NMOCD) approved disposal facility for disposal (approximately 72 cubic yards [cy] of impacted soils were removed). Concurrently, Tasman initiated assessment activities in which three (3) 5-point composite soil samples were collected from the bottom and sidewalls of the previously excavated area and submitted to the laboratory for analysis of total petroleum hydrocarbons (TPH) and chloride (Cl-) concentrations via method 8015 M Ext. and SM4500 CL-B, respectively. The laboratory analytical results for the bottom and sidewall composite soil samples exhibited concentrations of TPH in soils above applicable NMOCD closure criteria. Based on the Initial field observations at that time, the volume of associated hydrocarbon liquids was estimated to be below NMOCD reporting thresholds of 5 barrels (bbls). Additional details of the initial remedial actions are presented in the July 2, 2020 Site Assessment Summary and Remediation Plan previously submitted to NMOCD.

A release Site Characterization Map is provided as Figure 1. General remedial actions and site delineation photographs are provided as Appendix C.

# **REGULATORY FRAMEWORK**

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the NMOCD in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance and enforcement procedures. Table I of 19.15.29.12 NMAC defines the closure criteria for soils impacted by a release based on the depth to groundwater and the following site characteristics:

Site Characteristics	
Approximate Depth to Groundwater	~ 197 feet
Within 300 ft. of any continuously flowing or significant watercourse?	🗌 Yes 🗹 No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	🗌 Yes 🗹 No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	🗌 Yes 🗹 No
Within 500 ft. of a spring or private, domestic fresh water well?	🗌 Yes 🗹 No
Within 1,000 ft. of any fresh water well?	🗸 Yes 🗌 No
Within the incorporated municipal boundaries or within a municipal well field?	🗌 Yes 🗹 No
Within 300 ft. of a wetland?	🗌 Yes 🗹 No
Within the area overlying a subsurface mine?	🗌 Yes 🗹 No
Within an unstable area?	🗌 Yes 🗹 No
Within a 100-year floodplain?	🗌 Yes 🗹 No

A search of a groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a one (1) mile radius of the Release Site and to identify any registered water wells within a 1/2 mile of the Release Site. Based on a review of the water well data, the approximate average depth to groundwater in the vicinity of the Release Site was estimated to be approximately 197 feet below ground surface (bgs). Figure 1 illustrates the location of the registered water wells within the vicinity of the Release Site. The NMOSE database search findings and depth to groundwater results is provided in Appendix A.

NMOCD Closure Criteria for this site are as follows:

Closure Cr		able I bils Impacted by a Rele	ease				
Minimum depth below any point within the horizontal boundar release to ground water less than 10,000 mg/l TDS	ry of the	Constituent	Method*	Limit**			
	C	hloride***	EPA 300.0	600 mg/kg			
		PH GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg			
≤ 50 feet	В	TEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	В	enzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg			
Notes: 1) Soil closure criteria based on NMOCD Guidelines Title 19 Chapter 15 Part 29 2) TPH calculated by adding GRO, DRO and MRO (Ext Hydrocarbons) concentrations. * Or other test methods approved by the NMOCD. ** Numerical limits or natural background level, whichever is greater. *** This applies to releases of produced water or other fluids, which may contain chloride.							
GRO - Gasoline range organics DRO - Diesel range mg/kg - Milligrams per kilogram mg/l - Milligrams pe	-						
TDS - Total dissolved solids     TPH - Total volatile and extractable petroleum hydrocarbons							

# SITE DELINEATION

Between October 22, 2019 and January 28, 2020, Tasman personnel revisited the Release Site three (3) times in an effort to complete additional site characterization, excavate identified hydrocarbon impacted soil, collect soil samples and transport/dispose of excavated soil to a NMOCD-approved disposal facility. During the January 28, 2020 assessment, three (3) 5-point composite method soil samples were collected from the bottom and sidewalls of the open excavation and submitted to an NMOCD-approved laboratory for analysis of TPH; benzene, toluene, ethylbenzene and xylene (BTEX) using analytical method SW846 8269C; and Cl-. Analytical results of the soil samples collected during the January 28, 2020 delineation activities, indicated that BTEX and Cl- concentrations are below the NMOCD Closure Criteria and were no longer a constituent of concern. TPH still remained above the NMOCD Closure Criteria of 100 ppm. Additional details of these remedial actions and delineation activities are presented in the July 2, 2020 Site Assessment Summary and Remediation Plan previously submitted to NMOCD.

Based on the additional remedial actions and delineation activities between October 22, 2019 and January 28, 2020, the extent of the release was re-assessed and conservatively estimated to be approximately 6 bbls which is a minor release (slightly greater than the reportable quantity of 5 bbls but less than the release threshold for a major release of 25 bbls). As such, DCP opted to submit release notification (Form C-141) on June 15, 2020. A copy of the initial release notification form is provided in Appendix D. In addition, supplemental investigative and remedial action were proposed in the July 2, 2020 Site Assessment Summary and Remediation Plan and subsequently implemented.

As described in the July 16, 2020 Site Assessment Summary and Remediation Plan, Tasman re-mobilized to the site on January 12 and 13, 2021 to advance five (5) soil borings (SB-1, SB-2, SB-3, SB-4 and SB-5) in an effort to further investigate the horizontal and vertical extent of soil impacts (Figure 2). The soil borings were advanced using an air rotary rig and the subsurface geology, field observations and sample depths were recorded on soil boring logs. Soil boring SB-1, located near the center of the previous excavation, was advanced to a total depth of 30 feet below ground surface (bgs) and soil borings SB-2, SB-3, SB-4, and SB-5, located adjacent to each side of the previous excavation limits, were advanced to a total depth of 20 feet bgs. Groundwater was not encountered during field investigation activities. Soil samples were collected at regular vertical intervals (ground surface, 5', 10', 15', 20', 25' and/or 30' bgs) and field tested for CL- using a Silver Nitrate Kit and volatile organic compounds (VOCs) using a photo-ionization detector (PID). Representative soil samples were also collected from select vertical intervals and sent to a NMOCD-approved laboratory for analysis of TPH, BTEX, and/or Cl-. Analytical results of the vertical soil samples collected from the soil borings indicated that all TPH, BTEX and Cl- concentrations are below the NMOCD Closure Criteria and the horizontal and vertical extent of the impacted soil has be delineated.

The locations of the soil borings, and the field screening and analytical results of the soil samples collected from the soil borings are presented on Figure 2. The soil boring logs presenting a description of the subsurface geology, field observations, field screening results and soil sample intervals is provided in Appendix E. Laboratory analytical reports are provided in Appendix B. A summary of the laboratory analytical results from the soil samples collected from the soil borings is presented in the table below.

					SW 846	8260C		SW	846 8015M	Ext.		E 30
Sample ID	Date	Depth	PID Reading (ppm)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6-</sub> C <sub>28</sub> (mg/kg)	GRO EXT C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chlori (mg/l
SB-1 @ 5'	1/12/2021	5'	38.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SB-1 @ 10'	1/12/2021	10'	28.1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SB-1 @ 15'	1/12/2021	15'	15.9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SB-1 @ 20'	1/12/2021	20'	33.7	In-Situ	NA	NA	NA	NA	NA	NA	NA	NA
SB-1 @ 25'	1/12/2021	25'	35.0	In-Situ	NA	NA	NA	NA	NA	NA	NA	NA
SB-1 @ 30'	1/12/2021	30'	10.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SB-2 @ Surface	1/12/2021	0'	3.7	In-Situ	NA	NA	NA	NA	NA	NA	NA	NA
SB-2 @ 5'	1/12/2021	5'	3.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SB-2 @ 10'	1/12/2021	10'	1.8	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SB-2 @ 15'	1/12/2021	15'	2.7	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SB-2 @ 20'	1/12/2021	20'	3.1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SB-3 @ Surface	1/12/2021	0'	1.9	In-Situ	NA	NA	NA	NA	NA	NA	NA	N
SB-3 @ 5'	1/12/2021	5'	3.1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3
SB-3 @ 10'	1/12/2021	10'	1.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3
SB-3 @ 15'	1/12/2021	15'	1.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3
SB-3 @ 20'	1/12/2021	20'	1.7	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6
SB-4 @ Surface	1/12/2021	0'	2.2	In-Situ	NA	NA	NA	NA	NA	NA	NA	N
SB-4 @ 5'	1/12/2021	5'	2.1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4
SB-4 @ 10'	1/12/2021	10'	2.7	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4
SB-4 @ 15'	1/12/2021	15'	1.9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4
SB-4 @ 20'	1/12/2021	20'	1.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4
SB-5 @ Surface	1/13/2021	0'	2.1	In-Situ	NA	NA	NA	NA	NA	NA	NA	N
SB-5 @ 5'	1/13/2021	5'	1.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4
SB-5 @ 10'	1/13/2021	10'	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10
SB-5 @ 15'	1/13/2021	15'	3.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SB-5 @ 20'	1/13/2021	20'	1.3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	CD Closure Cr	riteria			10	50	-	-	-	-	100	60

GRO - Gasoline range organics

DRO - Diesel range organics mg/kg - Milligrams per kilogram bgs - Below ground surface

TPH - Total volatile and extractable petroleum hydrocarbons NA - Not available

The laboratory analytical reports for these site assessment activities are provided as Appendix B.

# SUMMARY OF FIELD ACTIVITIES

Based on the previous site assessment activities and findings described above, Tasman remobilized to the Release Site four (4) additional times between January 27, 2021 and February 1, 2021 to further remediate impacted soil using mechanical equipment and to perform bottom and sidewall soil confirmation sampling within the limits of the excavation for site closure. The majority of impacted soil was excavated to a depth of approximately 5-feet bgs except in the bottom grid area for samples #1 which had TPH concentrations in the composite soil sample above NMOCD closure criteria. As such, impacted soils in grid area #1 were excavated to a depth of 8-feet bgs and an additional bottom soil composite confirmation sample were collected. Along the east sidewall of the excavation, the composite sidewall samples exhibited elevated TPH concentrations above NMOCD closure criteria which resulted in extending the limits of excavation further east and performing two additional sidewall soil confirmation samples on the east wall. The final excavation footprint extended over an area of approximately 27-feet by 27-feet as illustrated on Figures 3A and 3B.

Excavated impacted soil was temporarily stockpiled on-site, on top of a plastic impermeable liner, pending final disposition. Upon completion of excavation activities, a total of three (3) bottom and four (4) sidewall 5-point composite method confirmation soil samples were collected from the final limits of the excavation. The collected soil samples were submitted to a NMOCD-approved laboratory for analysis of TPH, BTEX, and Cl-. Laboratory analytical results indicated that TPH, BTEX, and CL-concentrations were below the NMOCD closure criteria for all the confirmatory samples representative of the final limits of the excavation. Upon receiving laboratory analytical results from confirmatory sampling, impacted soil (312 cubic yards) was transported under manifest to a NMOCD-approved disposal facility. A summary of the analytical results for the bottom and sidewall confirmation soil samples is provided in the table below:

	Concentrations of BTEX, TPH and Chloride in Soil											
					SW 846	8021B		SW	846 8015M	Ext.		4500 С-В
Sample ID	Date	Depth	PID Reading (ppm)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
5- PT Comp. Bottom - 1 @ 5'	1/28/2021	5'	41.9	Excavated	NA	NA	12.3	1,610	1,622.3	382.0	2,004.3	NA
5- PT Comp. Bottom - 2 @ 5'	1/28/2021	5'	1.2	In-Situ	<0.050	<0.300	<10.0	43	43	18	61	32
5- PT Comp. Bottom - 3 @ 5'	1/28/2021	5'	1.5	In-Situ	<0.050	<0.300	<10.0	21	21	<10.0	21	32
5- PT Comp. Bottom - 1 @ 8'	1/29/2021	8'	46.6	In-Situ	<0.050	<0.300	<10.0	58	58	19.0	77	32
5 PT Comp. North Wall	1/28/2021	NA	3.9	In-Situ	<0.050	<0.300	<10.0	15	15	<10.0	15	96
5 PT Comp. West Wall	1/28/2021	NA	2.7	In-Situ	<0.050	<0.300	<10.0	23.9	23.9	<10.0	23.9	48
5 PT Comp. East Wall	1/28/2021	NA	1.9	Excavated	NA	NA	<10.0	125	125	39.7	164.7	NA
5 PT Comp. South Wall	1/28/2021	NA	3.9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	18.8	18.8	16
5 PT Comp. East Wall Extended	1/29/2021	NA	40.6	Excavated	NA	NA	<10.0	93.4	93.4	21.1	114.5	NA
5 PT Comp. East Wall Extended	2/1/2021	NA	20.3	In-Situ	<0.050	<0.300	<10.0	10.3	10.3	<10.0	10.3	32
5 PT. Comp. North Wall-2 Ext	2/4/2021	NA	2.6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
NMOCD	Closure Cr	iteria			10	50	-	-	-	-	100	600
Notes:												
1) Soil closure criteria based on NMO	OCD Guideline	s Title 19	Ochapter 1	5 Part 29								
2) TPH calculated by adding GRO, D	RO and GRO	EXT con	centrations.									
Bold - Indicates constituent concentra	ation above res	pective N	MOCD - N	MAC Closu	ire Criteria.							
GRO - Gasoline range organics		DRO - E	Diesel range	organics								

NA - Not available TPH - Total volatile and extractable petroleum hydrocarbons

The bottom and sidewall 5-point composite soil confirmation sample locations as well as the field screening and laboratory analytical results are presented on Figures 3A and 3B, respectively. General remedial action, site delineation and restoration photographs are presented in Appendix C. The laboratory analytical reports are provided in Appendix B.

Between February 9, 2021, the excavated area was backfilled with locally sourced, non-impacted "like" material (approximately 160cy of backfill and 236cy of top soil). On February 9, 2021, Tasman collected a 5-point composite method soil sample from the imported top soil and submitted the sample to a NMOCD-approved laboratory for analysis of TPH, BTEX, and Cl-. Laboratory analytical results indicated that TPH, BTEX, and CL- concentrations were below the NMOCD closure criteria for the submitted soil sample. The laboratory analytical report for the imported top soil sample is provided in Appendix B. On February 9, 2021, the area impacted by the release and remedial activities were contoured to match surrounding ground surface.

# SITE CLOSURE REQUEST

Based on laboratory analytical results from confirmation soil samples, impacted soil within the release margins has been determined to be remediated to below the 19.15.29.12 NMAC Table I - Closure Criteria for soils impacted by the release. Tasman on behalf of DCP Midstream, respectfully requests the NMOCD grant closure approval for this site. The site closure request form (Form C-141) is provided in Appendix F.

# **RESTORATION, RECLAMATION AND RE-VEGETATION**

On February 9, 2021, the areas affected by the Release and associated remediation activities were was backfilled with locally sourced, non-impacted general backfill (~5-ft.to 8-ft. bgs) and top soil (Surface to ~5-ft. bgs). The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

A native seed mix acceptable to the property owner will be utilized for the revegetation of the Site. Upon approval from the property owner of the native seed mix, the mixture will be broadcast at a rate two (2) times the suggested rate to compensate for broadcasting of the seed and the seeding activities will take place during the next favorable growing season. Following the broadcasting of the seed, mechanical means, such as a screen or disc harrow pulled behind a tractor, will be used to "set" the seed.

If you have any questions, or if additional information is required, please feel free to contact Stephen Weathers or the undersigned by phone or email.

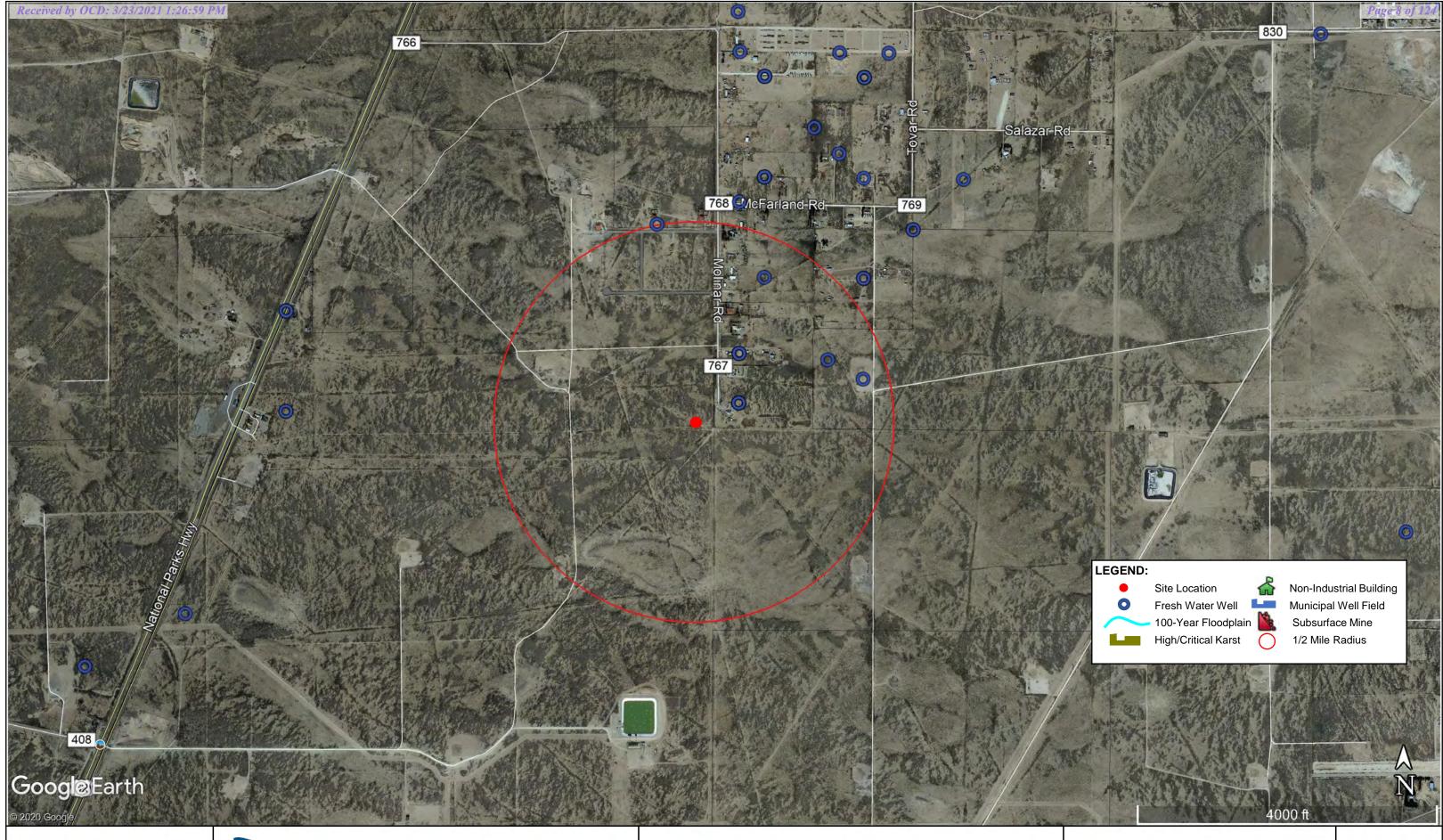
Respectfully,

Kyle Norman Regional Project Manager <u>knorman@tasman-geo.com</u> (575) 318-5017

#### Attachments:

Figure 1:	Site Characteristics Map
Figure 2:	Soil Bore Location Map
Figure 3A:	Soil Confirmation Sample Location Map (Excavation Bottom)
Figure 3B:	Soil Confirmation Sample Location Map (Excavation Sidewalls)
Appendix A:	Depth to Groundwater Information
Appendix B:	Laboratory Analytical Reports
Appendix C:	Photo Documentation
Appendix D:	Release Notification and Corrective Action (FORM C-141)
Appendix E:	Soil Boring Logs
Appendix F:	Closure Form (FORM C-141)

Figures



DATE: June 2020

DESIGNED BY : KN

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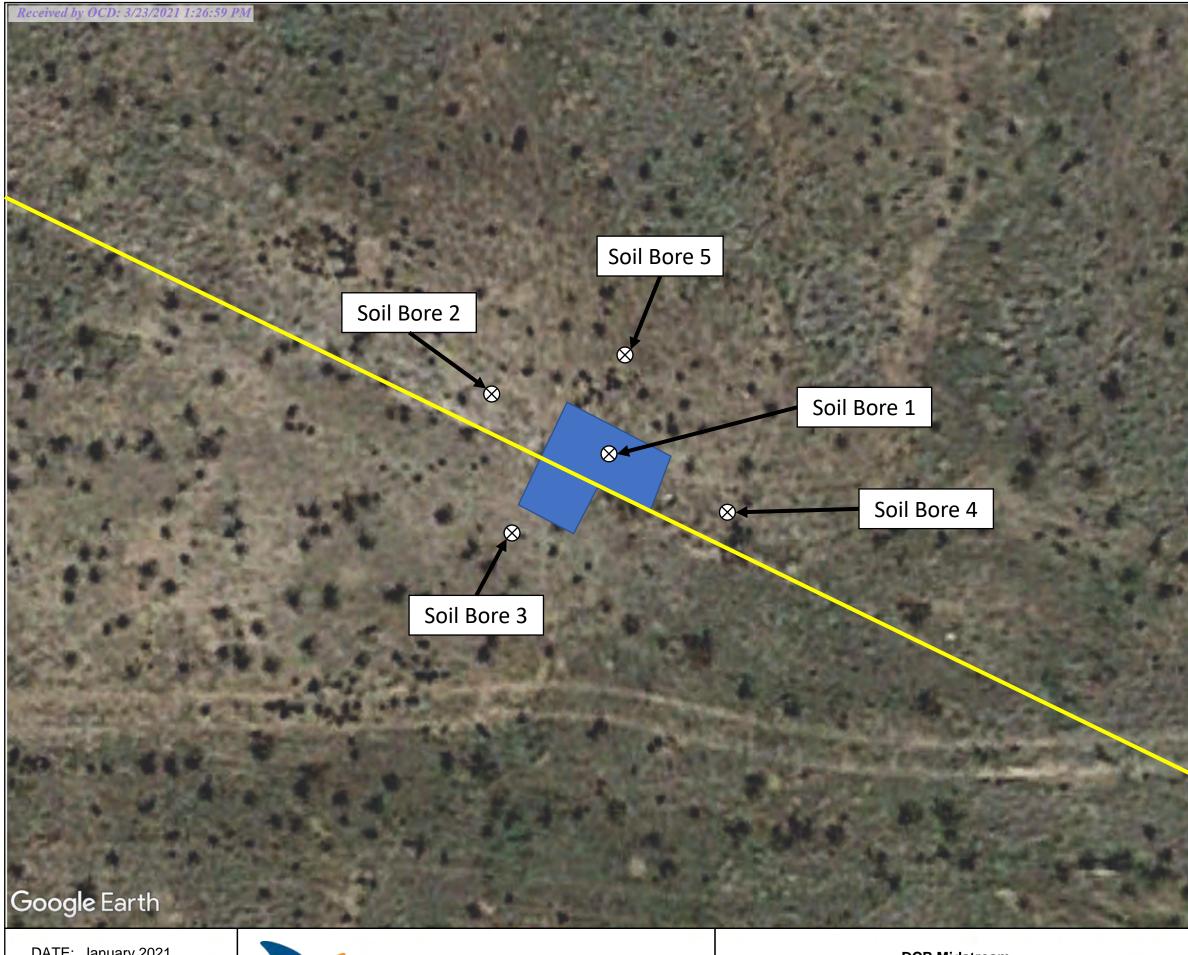


Tasman Geosciences, Inc. 2620 W. Marland Blvd. Hobbs, NM 88240

DCP Midstream 11117 Line Leak 2 GPS: 32.297758, -104.255832 UL "P", Section 14, Township 23 South, Range 26 East Eddy County, New Mexico

Site Characteristics Мар

# Figure 1



DATE: January 2021

DESIGNED BY : KN

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

DCP Midstream 11117 Line Leak 2 GPS: 32.297758, -104.255832 Lea County, New Mexico







Excavated Area

DCP 11117 6" Steel Pipeline



Soil Bore Location Мар

# Figure 2

60 ft

ろ N

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Sample ID	Date Sampled	PID Readings (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - EXT DRO (mg/kg)	TPH <sup>(3)</sup> GRO/DRO/EXT DRO (mg/kg)	Chloride (mg/kg)
5 PT Comp. Bottom -1 @8'	1/29/2021	46.6	<0.050	<300.0	<10.0	58	19	77	32
5 PT Comp. Bottom -2 @ 5'	1/28/2021	1.2	<0.050	<300.0	<10.0	43	18	61	32
5 PT Comp. Bottom -3 @ 5'	1/28/2021	1.5	<0.050	<300.0	<10.0	21	<10.0	21	32
NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup>		_	10	50		-	-	100	600

5 PT Comp. Bottom - 2 @ 5'

27 Ft

Approximate final extent of impacted soil excavation.

5 PT Comp. Bottom - 1 @8'

Google Earth

DATE: February 2021

DESIGNED BY : KN

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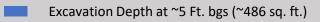
Tasman Geosciences, Inc. 2620 W. Marland Blvd. Hobbs, NM 88240 DCP Midstream 11117 Line Leak 2 GPS: 32.297758, -104.255832 UL "P", Section 14, Township 23 South, Range 26 East Eddy County, New Mexico

9 Ft.

18 Ft.

27 Ft.

# LEGEND:



Excavation Depth at ~8 Ft. bgs (~243 sq. ft.

5 Pt. Comp. Bottom Sample Point Location (~250 sq. ft.)

11117 6" Steel Pipeline

# 5 PT Comp. Bottom - 3 @ 5'



30 ft

Soil Confirmation Sample Location Map (Excavation Bottom)

Figure 3A

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1-1	5 PT Comp. North Wall	1/28/2021	3.9	< 0.050	< 0.300	<10.0	15	<10.0	15	96
	5 PT Comp. West Wall	1/28/2021	2.7	< 0.050	< 0.300	<10.0	23.9	<10.0	23.9	48
100	5 PT Comp. East Wall Extended	2/1/2021	20.3	< 0.050	< 0.300	<10.0	10.3	<10.0	10.3	32
	5 PT Comp. South Wall	1/28/2021	3.9	< 0.050	< 0.300	<10.0	<10.0	18.8	18.8	16
100	5 PT Comp. North Wall - 2 EXT	2/4/2021	2.6	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	32
	NMOCD Action Levels - Soil (mg/kg) (1)			10	50	-	-	-	100	600

5 PT Comp. North Wall

27 Ft.

5 PT Comp. North Wall-2 EXT

5 PT Comp. West Wall

Approximate final extent of impacted soil excavation.

5 PT Comp. South Wall

1

# Google Earth

DATE: February 2021

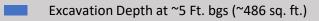
DESIGNED BY : KN

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Tasman Geosciences, Inc. 2620 W. Marland Blvd. Hobbs, NM 88240 DCP Midstream 11117 Line Leak 2 GPS: 32.297758, -104.255832 UL "P", Section 14, Township 23 South, Range 26 East Eddy County, New Mexico

# LEGEND:



Excavation Depth at ~8 Ft. bgs (~243 sq. ft.

5 Pt. Comp. Sidewall Sample Point Location (~250 sq. ft.)

11117 6" Steel Pipeline

5 PT Comp. East Wall Extended



30 ft

Soil Confirmation Sample Location Map (Excavation Sidewalls) Figure 3B Appendices

# Appendix A

# Depth to Groundwater Results



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced O=orphaned, C=the file is		(qua	rters	s ar	e 1:	=NW 2	2=NE 3	3=SW 4=SE	)				
water right file.)	closed)							t to lar		AD83 UTM in me	eters)	(	n feet)	
	POD Sub-		Q	Q	G							Denth	Depth	Water
POD Number	Code basin (	Count				Sec	Tws	Rng	х	Y	Distance			Column
<u>C 01572</u>	С	ED	3	3	3	13	23S	26E	570245	3573761* 🌍	198	215		
<u>C 02040</u>	С	ED	3	3	3	13	23S	26E	570245	3573761* 🌍	198	264	185	79
C 02658 POD2	С	ED	3	3	3	13	23S	26E	570245	3573761* 🌍	198	252	211	41
<u>C 01733</u>	С	ED	1	3	3	13	23S	26E	570245	3573961* 🌍	332	247	197	50
<u>C 01743</u>	С	ED	1	3	3	13	23S	26E	570245	3573961* 🌍	332	250	196	54
<u>C 02442</u>	С	ED	1	3	3	13	23S	26E	570245	3573961* 🌍	332	276	200	76
C 04348 POD1	С	ED	3	1	3	13	23S	26E	570224	3574192 🌍	534	260		
<u>C 03348</u>	С	ED	1	3	3	13	23S	26E	570606	3573938 🌍	599	240	200	40
<u>C 01832</u>	С	ED		1	3	13	23S	26E	570345	3574268* 🌍	649	250	200	50
<u>C 01672</u>	С	ED		4	3	13	23S	26E	570750	3573861* 🌍	709	280	80	200
C 03323 POD1	С	ED	3	4	2	14	23S	26E	569909	3574479 🌍	811	275	205	70
<u>C 01905</u>	С	ED		2	3	13	23S	26E	570749	3574267* 🌍	900	300		
<u>C 03071</u>	С	ED		2	3	13	23S	26E	570749	3574267* 🌍	900	250	204	46
<u>C 02052</u>	С	ED	3	3	1	13	23S	26E	570242	3574573* 🌍	907	290		
C 04201 POD1	С	ED	4	4	2	14	23S	26E	569626	3574546 🌍	967	255	110	145
<u>C 01626</u>	С	ED		3	1	13	23S	26E	570343	3574674* 🌍	1029	246	198	48
<u>C 01822</u>	С	ED		3	1	13	23S	26E	570343	3574674* 🌍	1029	258	200	58
C 01822 POD2	С	ED		3	1	13	23S	26E	570343	3574674* 🌍	1029	228	212	16
<u>C 01857</u>	С	ED				13	23S	26E	570949	3574465* 🌍	1181	255	197	58
<u>C 02232</u>	С	ED				13	23S	26E	570949	3574465* 🌍	1181	240	200	40
C 02484 EXPL	CUB	ED		4	1	13	23S	26E	570747	3574672* 🌍	1202	280	175	105
<u>C 01968</u>	С	ED	1	4	1	13	23S	26E	570646	3574771* 🌍	1234	247	200	47
<u>C 02059</u>	С	ED			1	13	23S	26E	570544	3574875* 🌍	1285	282	190	92
<u>C 01851</u>	С	ED		1	1	13	23S	26E	570341	3575080* 🌍	1424	258	207	51
<u>C 02260</u>	С	ED		1	1	13	23S	26E	570341	3575080* 🌍	1424	247	218	29
<u>C 02537</u>	С	ED		1	1	13	23S	26E	570341	3575080* 🌍	1424	280	210	70
*UTM location was derived f	rom PLSS - see I	Help												

#### Received by OCD: 3/23/2021/12260594PM

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	•	•					2=NE : st to lar	3=SW 4=SE rgest) (N	E) IAD83 UTM in me	eters)	(1	In feet)	
	POD Sub-		~	~	~								<b>D</b>	
POD Number	Code basin Co	untv	-	Q 16		Sec	Tws	Rna	х	Y	Distance		Depth Water 0	
<u>C 01825</u>		ED.					23S	_	571151	3574670* 😜	1468	243	221	22
<u>C 01867</u>	C E	ED	1	1	1	13	23S	26E	570240	3575179* 🌍	1506	250	212	38
<u>C 01762</u>	C E	ED		2	1	13	23S	26E	570746	3575078* 🌍	1553	260	191	69
C 01762 POD2	C E	ED		2	1	13	23S	26E	570746	3575078* 🌍	1553	250	203	47
<u>C 01765</u>	C E	Ð		2	1	13	23S	26E	570746	3575078* 🌍	1553	350		
<u>C 02444</u>	C E	Ð		2	1	13	23S	26E	570746	3575078* 🌍	1553	250	177	73
<u>C 02205</u>	C E	ED	1	2	1	13	23S	26E	570645	3575177* 🌍	1603	240	210	30
<u>C 01015</u>	C E	ED	4	4	4	15	23S	26E	568408	3573714* 🌍	1655	318	245	73
<u>C 03238</u>	C E	ĒD	4	4	4	15	23S	26E	568408	3573714* 🌍	1655	323	245	78
C 03396 POD1	C E	ĒD	3	3	3	12	23S	26E	570231	3575341 🌍	1666	280	220	60
<u>C 01642</u>	C E	ED	2	2	1	13	23S	26E	570845	3575177* 🌍	1686	303		
										Avera	ge Depth to	Water:	197 f	eet
											Minimum	Depth:	80 f	eet
											Maximum	Depth:	245 f	eet
Record Count: 37														

# UTMNAD83 Radius Search (in meters):

Easting (X): 570063

Northing (Y): 3573683

Radius: 1700

### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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# Appendix B

# Laboratory Analytical Reports



January 15, 2021

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 01/12/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	,	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 15-Jan-21 09:23
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOIL BORE 1 @ 5'	H210068-01	Soil	12-Jan-21 10:00	12-Jan-21 16:35
SOIL BORE 1 @ 10'	H210068-02	Soil	12-Jan-21 10:10	12-Jan-21 16:35
SOIL BORE 1 @ 15'	H210068-03	Soil	12-Jan-21 10:20	12-Jan-21 16:35
SOIL BORE 1 @ 30'	H210068-06	Soil	12-Jan-21 10:50	12-Jan-21 16:35
SOIL BORE 2 @ 5'	H210068-07	Soil	12-Jan-21 11:20	12-Jan-21 16:35
SOIL BORE 2 @ 10'	H210068-08	Soil	12-Jan-21 11:30	12-Jan-21 16:35
SOIL BORE 2 @ 15'	H210068-09	Soil	12-Jan-21 11:40	12-Jan-21 16:35
SOIL BORE 2 @ 20'	H210068-10	Soil	12-Jan-21 11:50	12-Jan-21 16:35
SOIL BORE 3 @ 5'	H210068-11	Soil	12-Jan-21 12:20	12-Jan-21 16:35
SOIL BORE 3 @ 10'	H210068-12	Soil	12-Jan-21 12:30	12-Jan-21 16:35
SOIL BORE 3 @ 15'	H210068-13	Soil	12-Jan-21 12:40	12-Jan-21 16:35
SOIL BORE 3 @ 20'	H210068-14	Soil	12-Jan-21 12:50	12-Jan-21 16:35
SOIL BORE 4 @ 5'	H210068-15	Soil	12-Jan-21 13:10	12-Jan-21 16:35
SOIL BORE 4 @ 10'	H210068-16	Soil	12-Jan-21 13:20	12-Jan-21 16:35
SOIL BORE 4 @ 15'	H210068-17	Soil	12-Jan-21 13:30	12-Jan-21 16:35
SOIL BORE 4 @ 20'	H210068-18	Soil	12-Jan-21 13:40	12-Jan-21 16:35

01/15/21 - Client added analyses to samples -03, -06, -09, -10, -13, -14, -17 and -18 on 01/14/21. This is the revised report and will replace the one sent on 01/13/21.

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

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 Num Project Mana	ber: NR		49	2	1	Reported: 5-Jan-21 09::	23
			BORE 1 ( 068-01 (Se	0					
Analyte	Result MI	Reporting DL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Labora	tories					
Inorganic Compounds									
Chloride	32.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PII	))	99.7 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	23.1	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		77.9 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		72.8 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nu Project Mar		420169542	49	2	1	Reported: 15-Jan-21 09:	23
			BORE 1 @ 0068-02 (Second						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardir	al Laborat	tories					
Inorganic Compounds	22.0	16.0		4	1011302	10	12 Jan 21	4500-Cl-B	
Chloride	32.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-CI-B	
Volatile Organic Compound	s by EPA Method 802	1							
Benzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	99.7 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	17.5	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		92.0 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		86.8 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nur Project Man	nber: NRN		49	2	1	Reported: 5-Jan-21 09:	23
			BORE 1 @	-					
				,,,,,					
Analyte	Result	MDL Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Chloride	32.0	16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	99.4 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane		95.0 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		90.1 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		-	Project: D ect Number: N ct Manager: K Fax To:		49	2	1	Reported: 5-Jan-21 09:	23
		S	OIL BORE 1 H210068-06 (	0					
Analyte	Result	Repo MDL Li	orting mit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(	Cardinal Labor	atories					
<u>Inorganic Compounds</u> Chloride	64.0	10	5.0 mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 802	1							
Benzene*	< 0.050	0.0	050 mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.0	050 mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.0	050 mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.	150 mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.3	300 mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		100 % 73	8.3-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10	).0 mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	21.7	10	).0 mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10	).0 mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane			94.6% 44	1.3-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			89.2 % 42	2.2-156	1011410	MS	14-Jan-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Man	nber: NRN		49	2	1	Reported: 5-Jan-21 09:	23
			BORE 2 (	0					
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	tories					
<u>Inorganic Compounds</u> Chloride	48.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)	99.9 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		75.2 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		71.0 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nu Project Mar	roject: DCF mber: NRN nager: KYL ax To:	420169542	49	2	1	Reported: 5-Jan-21 09:	23
			BORE 2 @ 0068-08 (Se						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardii	nal Laborat	tories					
Inorganic Compounds Chloride	32.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
			mg/kg	7	1011302	AC	13-Jan-21	4500-61-0	
Volatile Organic Compounds	•		4	50	1011205	MC	12 7 21	00010	
Benzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205 1011205	MS MS	13-Jan-21 13-Jan-21	8021B 8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50 50	1011205	MS	13-Jan-21 13-Jan-21	8021B 8021B	
Total Xylenes* Total BTEX	<0.150 <0.300	0.150 0.300	mg/kg mg/kg	50	1011205	MS	13-Jan-21	8021B 8021B	
							-		
Surrogate: 4-Bromofluorobenzene (PI	D)	99.8 %	/3.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		79.9 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		74.4 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Mana	nber: NR		49	2	1	Reported: 5-Jan-21 09:	23
			ORE 2 @						
Analyte	Result M	Reporting DL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Labora	tories					
Inorganic Compounds									
Chloride	64.0	16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	99.1 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane		97.8 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		96.3 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221			Project Num Project Mana	ber: NRN		49	<u>)</u>	1	Reported: 5-Jan-21 09::	23
				ORE 2 @ 068-10 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		98.3 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane			102 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			99.6 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Mana	ber: NRN		49	2	1	Reported: 5-Jan-21 09::	23
			BORE 3 ( 068-11 (So	0					
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
Inorganic Compounds Chloride	32.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
			mg/kg	4	1011302	AC	13 <b>-</b> Jan-21	4300-С1-В	
Volatile Organic Compounds Benzene*	<0.050 <0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	<i>99.9 %</i>	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		73.4 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		69.5 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Num Project Mana	ber: NR		49	2	1	Reported: 5-Jan-21 09:	23
			ORE 3 @ 068-12 (Se	/					
Analyte	Result 1	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	tories					
<u>Inorganic Compounds</u> Chloride	32.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
Volatile Organic Compounds			88						
Benzene*	<0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	100 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		79.2 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		74.0 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Mana	ber: NR		49	2	1	Reported: 5-Jan-21 09::	23
			ORE 3 @ 068-13 (Se						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	tories					
Inorganic Compounds									
Chloride	32.0	16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)	99.4 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane		96.6 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		95.3 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nur Project Man	nber: NRN		49	2	1	Reported: 5-Jan-21 09::	23
			BORE 3 @						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	tories					
Inorganic Compounds Chloride	64.0	16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 802	1							
Benzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)	100 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane		98.2 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		94.7 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221			Project Num Project Mana	ber: NR		49	2	1	Reported: 5-Jan-21 09::	23
				BORE 4 ( 068-15 (Se	<u> </u>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	40.0		16.0	ma/ka	4	1011302	AC	13-Jan-21	4500-Cl-B	
Chloride	48.0		16.0	mg/kg	4	1011302	AC	1 <b>3-Jan-</b> 21	4300-СІ-Б	
Volatile Organic Compounds		21								
Benzene*	< 0.050		0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		<i>99</i> .7 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane			71.5 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			66.6 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Mana	nber: NRM		49	2	1	Reported: 5-Jan-21 09:	23
			ORE 4 @ 068-16 (Se						
Analyte	Result M	Reporting DL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
Inorganic Compounds									
Chloride	48.0	16.0	mg/kg	4	1011302	AC	13-Jan-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011205	MS	13-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	99.3 %	73.3	-129	1011205	MS	13-Jan-21	8021B	
<u>Petroleum Hydrocarbons by</u>	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctane		79.3 %	44.3	-144	1011301	MS	13-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		74.1 %	42.2	-156	1011301	MS	13-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project Nun Project Man	nber: NRN		49	2	1	Reported: 5-Jan-21 09:	23
			ORE 4 @ 068-17 (So	/					
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0	16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 802								
Benzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	99.9 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane		91.5 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		87.6 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221			Project Num Project Mana	ber: NR		49	2	1	Reported: 5-Jan-21 09:	23
				ORE 4 @ 068-18 (Se	/					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	1011411	GM	14-Jan-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 802	21								
Benzene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1011407	MS	14-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		98.6 %	73.3	-129	1011407	MS	14-Jan-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctane			89.3 %	44.3	-144	1011410	MS	14-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			90.5 %	42.2	-156	1011410	MS	14-Jan-21	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	,	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 15-Jan-21 09:23
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### **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	13-Jan-21				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	13-Jan-21				
416	16.0	mg/kg	400		104	80-120			
			Prepared &	Analyzed:	13-Jan-21				
416	16.0	mg/kg	400		104	80-120	0.00	20	
			Prepared &	Analyzed:	14-Jan-21				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	14-Jan-21				
416	16.0	mg/kg	400		104	80-120			
			Prepared &	Analyzed:	14-Jan-21				
416	16.0	mg/kg	400		104	80-120	0.00	20	
	ND 416 416 ND 416	Result         Limit           ND         16.0           416         16.0           416         16.0           416         16.0           416         16.0           416         16.0           416         16.0           416         16.0	Result         Limit         Units           ND         16.0         mg/kg           416         16.0         mg/kg	Result     Limit     Units     Level       Prepared &       ND     16.0     mg/kg       416     16.0     mg/kg     400       416     16.0     mg/kg     400       Prepared &     400     Prepared &       416     16.0     mg/kg     400       16.0     mg/kg     400       Prepared &     Prepared &       16.0     mg/kg     400	Result     Limit     Units     Level     Result       Prepared & Analyzed:     Prepared & Analyzed:       ND     16.0     mg/kg       416     16.0     mg/kg       Prepared & Analyzed:     Prepared & Analyzed:       ND     16.0     mg/kg       416     16.0     mg/kg       Prepared & Analyzed:     Prepared & Analyzed:	Result         Limit         Units         Level         Result         %REC           Prepared & Analyzed: 13-Jan-21           ND         16.0         mg/kg         Prepared & Analyzed: 13-Jan-21           416         16.0         mg/kg         400         104           416         16.0         mg/kg         400         104           416         16.0         mg/kg         400         104           Prepared & Analyzed: 13-Jan-21           416         16.0         mg/kg         400         104           Prepared & Analyzed: 14-Jan-21           ND         16.0         mg/kg         400         104           Prepared & Analyzed: 14-Jan-21           ND         16.0         mg/kg         400         104           Prepared & Analyzed: 14-Jan-21           MD         16.0         mg/kg         400         104           Prepared & Analyzed: 14-Jan-21           MD         16.0         mg/kg         400         104	Result         Limit         Units         Level         Result         %REC         Limits           Prepared & Analyzed: 13-Jan-21           ND         16.0         mg/kg         Prepared & Analyzed: 13-Jan-21           416         16.0         mg/kg         400         104         80-120           Prepared & Analyzed: 13-Jan-21         Prepared & Analyzed: 13-Jan-21         900         104         80-120           416         16.0         mg/kg         400         104         80-120           416         16.0         mg/kg         400         104         80-120           Prepared & Analyzed: 14-Jan-21           ND         16.0         mg/kg         400         104         80-120           Prepared & Analyzed: 14-Jan-21           ND         16.0         mg/kg         400         104         80-120           Prepared & Analyzed: 14-Jan-21           416         16.0         mg/kg         400         104         80-120           Prepared & Analyzed: 14-Jan-21	Result         Limit         Units         Level         Result         %REC         Limits         RPD           Prepared & Analyzed: 13-Jan-21           ND         16.0         mg/kg </td <td>Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Prepared &amp; Analyzed: 13-Jan-21           ND         16.0         mg/kg         Prepared &amp; Analyzed: 13-Jan-21        </td>	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Prepared & Analyzed: 13-Jan-21           ND         16.0         mg/kg         Prepared & Analyzed: 13-Jan-21

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCESProject:DCP - 11117 LINE LEAK 2Reported:6899 PECOS ST. UNIT CProject Number:NRM201695424915-Jan-21 09:DENVER CO, 80221Project Manager:KYLE NORMAN Fax To:Fax To:	23	
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#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1011205 - Volatiles										
Blank (1011205-BLK1)				Prepared: 1	2-Jan-21 A	nalyzed: 1	3-Jan-21			
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)	ND		mg/kg	0.0500		97.0	73.3-129			
LCS (1011205-BS1)				Prepared: 1	2-Jan-21 A	nalyzed: 1	3-Jan-21			
Benzene	2.01	0.050	mg/kg	2.00		101	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.7	71.7-126			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.4	68.9-126			
Total Xylenes	5.65	0.150	mg/kg	6.00		94.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.2	73.3-129			
LCS Dup (1011205-BSD1)				Prepared: 1	2-Jan-21 A	nalyzed: 1	3-Jan-21			
Benzene	2.14	0.050	mg/kg	2.00		107	72.2-131	6.08	14.6	
Toluene	2.12	0.050	mg/kg	2.00		106	71.7-126	6.23	17.4	
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	68.9-126	6.23	18.9	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.9	71.4-125	5.91	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.1	73.3-129			
Batch 1011407 - Volatiles										
Blank (1011407-BLK1)				Prepared &	Analyzed:	14-Jan-21				
Benzene	ND	0.050	mg/kg							
oluene	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)	ND		mg/kg	0.0500		99.4	73.3-129			

#### Cardinal Laboratories

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	,	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 15-Jan-21 09:23
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1011407 - Volatiles										
LCS (1011407-BS1)				Prepared &	Analyzed:	14-Jan-21				
Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131			
Toluene	2.07	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.8	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0462		mg/kg	0.0500		92.4	73.3-129			
LCS Dup (1011407-BSD1)				Prepared &	Analyzed:	14-Jan-21				
Benzene	2.17	0.050	mg/kg	2.00		109	72.2-131	4.57	14.6	
Toluene	2.17	0.050	mg/kg	2.00		108	71.7-126	4.66	17.4	
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	68.9-126	4.93	18.9	
Total Xylenes	6.14	0.150	mg/kg	6.00		102	71.4-125	4.52	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0476		mg/kg	0.0500		95.3	73.3-129			

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 15-Jan-21 09:23
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### Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1011301 - General Prep - Organics										
Blank (1011301-BLK1)				Prepared &	Analyzed:	13-Jan-21				
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	45.0		mg/kg	50.0		90.0	44.3-144			
Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.8	42.2-156			
LCS (1011301-BS1)				Prepared &	Analyzed:	13-Jan-21				
GRO C6-C10	231	10.0	mg/kg	200		116	83.7-135			
DRO >C10-C28	221	10.0	mg/kg	200		110	80.4-133			
Total TPH C6-C28	452	10.0	mg/kg	400		113	83.1-133			
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.5	44.3-144			
Surrogate: 1-Chlorooctadecane	43.3		mg/kg	50.0		86.6	42.2-156			
LCS Dup (1011301-BSD1)				Prepared &	Analyzed:	13-Jan-21				
GRO C6-C10	221	10.0	mg/kg	200		110	83.7-135	4.52	13.8	
DRO >C10-C28	214	10.0	mg/kg	200		107	80.4-133	2.99	22.1	
Total TPH C6-C28	435	10.0	mg/kg	400		109	83.1-133	3.77	17.7	
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.9	44.3-144			
Surrogate: 1-Chlorooctadecane	42.1		mg/kg	50.0		84.1	42.2-156			
Batch 1011410 - General Prep - Organics										
Blank (1011410-BLK1)				Prepared &	Analyzed:	14-Jan-21				

Blank (1011410-BLK1)				Prepared & Anal	lyzed: 14-Jan-21		 
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	47.1		mg/kg	50.0	94.3	44.3-144	
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0	91.6	42.2-156	

### Cardinal Laboratories

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 15-Jan-21 09:23
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### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	14-Jan-21				
220	10.0	mg/kg	200		110	83.7-135			
225	10.0	mg/kg	200		112	80.4-133			
444	10.0	mg/kg	400		111	83.1-133			
50.5		mg/kg	50.0		101	44.3-144			
49.7		mg/kg	50.0		99.4	42.2-156			
			Prepared &	Analyzed:	14-Jan-21				
223	10.0	mg/kg	200		111	83.7-135	1.44	13.8	
225	10.0	mg/kg	200		113	80.4-133	0.270	22.1	
448	10.0	mg/kg	400		112	83.1-133	0.852	17.7	
48.7		mg/kg	50.0		97.4	44.3-144			
48.3		mg/kg	50.0		96.6	42.2-156			
	220 225 444 50.5 49.7 223 225 448 48.7	Result         Limit           220         10.0           225         10.0           444         10.0           50.5         49.7           223         10.0           225         10.0           448         10.0	Result         Limit         Units           220         10.0         mg/kg           225         10.0         mg/kg           444         10.0         mg/kg           50.5         mg/kg           49.7         mg/kg           225         10.0         mg/kg           444         10.0         mg/kg           49.7         mg/kg         mg/kg           448         10.0         mg/kg	Result         Limit         Units         Level           Prepared &           220         10.0         mg/kg         200           225         10.0         mg/kg         200           444         10.0         mg/kg         400           50.5         mg/kg         50.0           49.7         mg/kg         50.0           Prepared &           223         10.0         mg/kg         200           225         10.0         mg/kg         200           448         10.0         mg/kg         50.0	Result         Limit         Units         Level         Result           Prepared & Analyzed:           220         10.0         mg/kg         200           225         10.0         mg/kg         200           444         10.0         mg/kg         400           50.5         mg/kg         50.0           49.7         mg/kg         50.0           Prepared & Analyzed:           223         10.0         mg/kg         200           225         10.0         mg/kg         200           444         10.0         mg/kg         200           444         10.0         mg/kg         200           448         10.0         mg/kg         200           448         10.0         mg/kg         50.0	Result         Limit         Units         Level         Result         %REC           Prepared & Analyzed: 14-Jan-21           220         10.0         mg/kg         200         110           225         10.0         mg/kg         200         112           444         10.0         mg/kg         400         111           50.5         mg/kg         50.0         101           49.7         mg/kg         50.0         99.4           Prepared & Analyzed: 14-Jan-21           223         10.0         mg/kg         200         111           225         10.0         mg/kg         200         111           223         10.0         mg/kg         200         111           225         10.0         mg/kg         200         113           448         10.0         mg/kg         400         112           48.7         mg/kg         50.0         97.4	Result         Limit         Units         Level         Result         %REC         Limits           Prepared & Analyzed: 14-Jan-21           220         10.0         mg/kg         200         110         83.7-135           225         10.0         mg/kg         200         112         80.4-133           444         10.0         mg/kg         400         111         83.1-133           50.5         mg/kg         50.0         101         44.3-144           49.7         mg/kg         50.0         99.4         42.2-156           Prepared & Analyzed: 14-Jan-21           223         10.0         mg/kg         200         111         83.7-135           225         10.0         mg/kg         200         111         83.7-135           225         10.0         mg/kg         200         111         83.7-135           225         10.0         mg/kg         200         113         80.4-133           448         10.0         mg/kg         400         112         83.1-133           48.7         mg/kg         50.0         97.4         44.3-144	Result         Limit         Units         Level         Result         %REC         Limits         RPD           Prepared & Analyzed: 14-Jan-21           220         10.0         mg/kg         200         110         83.7-135           225         10.0         mg/kg         200         112         80.4-133           444         10.0         mg/kg         400         111         83.1-133           50.5         mg/kg         50.0         101         44.3-144           49.7         mg/kg         50.0         99.4         42.2-156           Prepared & Analyzed: 14-Jan-21           223         10.0         mg/kg         200         111         83.7-135         1.44           225         10.0         mg/kg         200         111         83.7-135         1.44           225         10.0         mg/kg         200         111         83.7-135         1.44           225         10.0         mg/kg         200         113         80.4-133         0.270           448         10.0         mg/kg         50.0         97.4         44.3-144         0.852	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Prepared & Analyzed: 14-Jan-21           220         10.0         mg/kg         200         110         83.7-135           225         10.0         mg/kg         200         112         80.4-133           444         10.0         mg/kg         400         111         83.1-133           50.5         mg/kg         50.0         101         44.3-144           49.7         mg/kg         50.0         99.4         42.2-156           Prepared & Analyzed: 14-Jan-21           223         10.0         mg/kg         200         111         83.7-135         1.44         13.8           225         10.0         mg/kg         200         111         83.7-135         1.44         13.8           225         10.0         mg/kg         200         113         80.4-133         0.270         22.1           448         10.0         mg/kg         400         112         83.1-133         0.852         17.7           48.7         mg/kg         50.0         97.4         44.3-144         44.3-144

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Project Manager:	Tasman Geosciences Kyle Norman		P.O. #:		-	-	-	-A	ANALYSIS	S	- 0		REQ
Address: 2620	2620 W. Marland Blvd.	0	Company: Tasman Geo	eo		-	-			IS	IS	IS /	!
City: Hobbs	State: NM	Zip: 88240 A	Attn: Kyle Norman			_	_		1	or	or	k	k
Phone #: 575-318-5017	18-5017 Fax #:	A	Address: 2620 W. Marland	arland	_	_	_			١	١	ul.	il.
Project #: NRM2016954249		Project Owner: DCP Midstream C	City: Hobbs	-	-	IVI		П		s//	s//	30	30
Project Name: 1	Project Name: 11117 Line Leak 2	S	State: NM Zip: 88240		des	-		P		_	_	; /	; /
Project Location:		G	Phone #: 575-318-5017		-	-	E	S	- 47		DS		
Sampler Name:	Becky Griffin	-	Fax #:		-	-	-	Xd	0	-	-	T	T
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			PH		Te>	4.0	te	te	d	d
Lab I.D.	Sample I.D.	RAB OR (C)OMP. CONTAINERS COUNDWATER ASTEWATER DIL UDGE HER :	ID/BASE: E / COOL HER :			11	T	1	Consider	Complete	Complete	Complete	Complete addic
-	Soil Bore 1 @ 5'	1 1	~	1006	$\frac{1}{2}$	-	-	_		-			
2	Soil Bore 1 @ 10'		~	1010		-	-						
0	Soil Bore 1 @ 15'		~	1020		-	U			_	-	5	VI
4 s	Soil Bore 1 @ 20'	1 1	~	1030		-		_		_			1
5	Soil Bore 1 @ 25'		~	10 40	-	1							1
6 0	Soil Bore 1 @ 30'	1	~	1050		-	Q	-			-	7	~ ~
70	Soil Bore 2 @ 5'	1 1	~	1120		-	-	_		-			
8	Soil Bore 2 @ 10'	1 1	~	1130	-	-	-						/
-	Soil Bore 2 @ 15'		~	1140		-	1				-	1	11
DI FACE NOTE- 1 LABAR ON DO			Г	1150	Ê	÷	R			-	F	V	VI
<ul> <li>LCASSE AV IE: Labelly and Lamages. Ca analyses. All claims including those for neg sarvice. In no event shall Cardinal be liable affiliates or successors arising out of or rela</li> </ul>	ges. Learanas sabary and clients exclusiv for negligence and any other cause whatso he liable for incidental or consequental dama f or related to the performance of services h	claim ansing whether based in contract imed walved unless made in writing any thout limitation, business internuptions, final, regardless of whether such claim	(or tort, shall be limited to the amount pail of received by Cardinal within 30 days after loss of use, or loss of profits incurred by of loss of use, or loss of profits incurred to loss of use, any of the above stated received and the stated upon any of the above stated received and the stated upon any of the above stated received and the state of th	amount paid by the client for the 0 days after completion of the ap courred by client, its subsidiaries e stated reasons or otherwise	plicable								
Relinquished By:	Date:	Received By:	11/10	Phone Result:		T Yes	No No		Ad	Add'l Pho	Add'I Phone #:	Add'l Phone #:	Add'I Phone #:
Ricky	St.	amara 1	Maker	Fax Result: REMARKS:		Yes	12 No	_	Ad	Add'l Fax	Add'l Fax #:	Add'I Fax #:	Add'l Fax #:
	Date: Time:	Received By:	the there a	email results: knorman@t bgriffin@tasman-geo.com	sults	man	geo	n@	3 10	)tasm m	)tasman- m	)tasman-geo. m	knorman@tasman-geo.com; an-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other	(Circle One) Bus - Other:  、フィーン	Sample Condition Cool Intact Pres Pres No No	(Initials)	<pre>Weathers, Stephen W <swweathers@dcpm< pre=""></swweathers@dcpm<></pre>	athe	rs@	en V dcpr	nids		stream	stream.co	Weathers, Stephen W <swweathers@dcpmidstream.com></swweathers@dcpmidstream.com>	stream.com>
+ Cardinal ca													

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476			ANALVSIS REOLIEST
Company Name: Tasman Geosciences		BILL TO	
Project Manager: Kyle Norman		P.O. #:	
Address: 2620 W. Marland Blvd.		Company: Tasman Geo	
$\leq$	State: NM Zip: 88240	Attn: Kyle Norman	nio
Phone #: 575-318-5017	Fax #:	Address: 2620 W. Marland	/ //Ai
Project #: NRM2016954249	Project Owner: DCP Midstream	City: Hobbs	PH
Project Name: 11117 Line Leak 2		State: NM Zip: 88240	de 15 X TF ior S
Fluger hanner		Phone #: 575-318-5017	
		Fax #:	
Sampler Name: Becky Griffin		-	
FOR LAB USE ONLY	3	TREADY.	( TF T
Lab I.D. Sample I.D.	G)RAB OR (C)O CONTAINERS ROUNDWATER VASTEWATER OIL		Comp
// Soil Bore 3 @ 5'	1 1	<	< <
12 Soil Bore 3 @ 10'	1 1	~	
-	1 1	<	1240/1 1 1
_	1 1	~	1250 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1	1 1	~	1310 4 4 4 1
		<	
17 Soil Bore 4 @ 15'	1 1	<	V V
/ Soil Bore 4 @ 20'	1	~	1340 V V
PLEASE NOTE: Liability and Damages. Candhal's liability and dent's exclusive remedy for any claim artising whether based in contract or tort, shall be limited to the amount paid by the dent for the PLEASE NOTE: Liability and Damages. Candhal's liability and dent's exclusive remedy for any claim artising whether based in contract or tort, shall be limited to the amount paid by the dent for the analyzes. All claims including those for negligence and any other cause whatsoever shall be dented waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyzes. All claims including those for negligence and any other cause whatsoever shall be dented waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyzes. All claims including those for negligence and any other cause whatsoever shall be dented waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyzes. All claims including those for negligence and any other cause whatsoever all values of unless in an any other cause whatsoever and the applicable analyzes. All claims including those for negligence and any other cause whatsoever all values of unless inclusion of unless of unless of unless. All claims including the date of the applicable analyzes. All claims including the date of the applicable dented waited unless made in writing and received by Cardinal writing and the applicable analyzes. All claims including the applicable dented without any other cause of the applicable date of the applicable date of the applicable date of the applicable date. All the applicable date of the applicable	Cardnal's lability and dentits exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the clent for the applicance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicance in the applicance interruptions, loss of use, or loss of prifts another the about days at the applicance in the applicance interruptions.	n contract or tort, shall be limited to the amount p writing and received by Cardinal within 30 days al mplicina, loss of use, or loss of profits incurred b	d by the client for the ter completion of the applicable client, its subalisation.
Relinquished By:	of services hereunder by Cardinal, regardless of whether such caums to Date: 1-12-21 Received By: Time:		Phone Result:  Yes  No Add'I Phone #: Fax Result:  Yes  No Add'I Fax #: REMARKS:
Relinquished By:	Date: Received By:	m Constraint	email results: knorman@tasman-geo.com; bgriffin@tasman-geo.com Weathers: Stenhen W
Delivered By: (Circle One)	Sample Cool 1	Sample Condition CHECKED BY: Cool Intact (Initials)	<swweathers@dcpmidstream.com></swweathers@dcpmidstream.com>
Sampler - UPS - Bus - Other:	5.7° #/13 AVES	lo es	
+ Cardinal cannot accept verbal	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	jes to 505-393-2476	



January 14, 2021

KYLE NORMAN TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 01/13/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	TASMAN GEOSCIENCES KYLE NORMAN 6899 PECOS ST. UNIT C DENVER CO, 80221 Fax To:	UNIT C					
Received:	01/13/2021	Sampling Date:	01/13/2021				
Reported:	01/14/2021	Sampling Type:	Soil				
Project Name:	DCP - 11117 LINE LEAK 2	Sampling Condition:	Cool & Intact				
Project Number:	NRM2016954249	Sample Received By:	Tamara Oldaker				
Project Location:	NONE GIVEN						

### Sample ID: SOIL BORE - 5 @ 5' (H210081-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	01/13/2021 ND		95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	01/13/2021 ND					
Surrogate: 4-Bromofluorobenzene (PID 99.6 % 73.3-12		9							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit Analyzed		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2021	ND	208	104	200	5.97	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	209	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					
Surrogate: 1-Chlorooctane	72.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	73.6	% 42.2-15	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	KYLE NOR	DS ST. UNIT C	
Received:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	DCP - 11117 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	NRM2016954249	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

### Sample ID: SOIL BORE - 5 @ 10' (H210081-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021 ND		1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	01/13/2021 ND		95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	Surrogate: 4-Bromofluorobenzene (PID 98.7 % 73.3-12		9						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit Analy		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2021	01/14/2021 ND		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	01/13/2021	ND	208	104	200	5.97	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	209	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					
Surrogate: 1-Chlorooctane	75.8 9	% 44.3-14	4						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	KYLE NOR	DS ST. UNIT C	
Received:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	DCP - 11117 LINE LEAK 2	Sampling Condition:	Cool & Intact
Project Number:	NRM2016954249	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

### Sample ID: SOIL BORE - 5 @ 15' (H210081-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021 ND		5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	Surrogate: 4-Bromofluorobenzene (PID 99.4 % 73.3-12		9						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane 95.9 % 42.2-15		6							

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	TASMAN GEOSCIENCES KYLE NORMAN 6899 PECOS ST. UNIT O DENVER CO, 80221 Fax To:				
Received:	01/13/2021	Sampling Date:	01/13/2021		
Reported:	01/14/2021	Sampling Type:	Soil		
Project Name:	DCP - 11117 LINE LEAK 2	Sampling Condition:	Cool & Intact		
Project Number:	NRM2016954249	Sample Received By:	Tamara Oldaker		
Project Location:	NONE GIVEN				

### Sample ID: SOIL BORE - 5 @ 20' (H210081-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300 0.300		01/13/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 73.3-12	9						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					
Surrogate: 1-Chlorooctane	94.2 \$	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane 93.9% 42.2-156									

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Buckyl		analyses. All claims including those for neighboroe and any other cause whatboorer shall be convent analogy messive caused in contract service. In no event shall Cardinal be lake for incidental or consequential damages, including without literation, business interruptions, affiliates or successors unking out of or related to the performance of services hereunder by Cardinal, regardlets of whether such data Relinquished By: Date: Reconstructions because the second by:	LEASE NOTE: Liability and Damage	Soil B	-	J Soil E	Soil E	Lab I.D. H.21 0081	FOR LAB USE ONLY	Sampler Name: Becky Griffin	Project Location: 11117 Line Leak 2	Project Name: DCP	Project #: NMR 2016954249	Phone #: 575-318-5017	City: Hobbs	Address: 2620 W Marland Blvd	rioject manager: Kyle Norman	Company Name: T
Delivered By: Circle Cool	Time:	negligence and any other cause whats able for incidental or consequental dam related to the performance of services Date:	s. Cardinal's liability and client's and	Soil Bore - 5 @ 20'	Soil Bore - 5 @ 15'	Soil Bore - 5 @ 10'	Soil Bore - 5 @ 5'	Sample I.D.		ky Griffin	1117 Line Leak 2					Marland Blvd	yle Norman	Tasman Geosciences, LLC
	20	hatsoever shall be deemed damages, including without ces hereunder by Cardinal, ce:	demine the second se					(G)RAB OR (C)OMP.	_				roject Owner: [	Fax #:	State: NM Z			LLC
Received By: Sample Condition Cool Intact	Mulara	analyses. At claims including those for hapdigence and any other cause whatboever shall be deened waved unsard wrener cause of contrast or tork, shall be limited to the amount paid by the deent for the service. In no event shall Cardinal be limited to the performance whatboever shall be deened waved unkers made in writing and neared by Cardinal within 30 days after applicable affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, trajent cause, or less of profile insured by feed, it is substaining affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless interruptions, loss of use, or less of profile insured by feed, it is substaining Refinite the services of the service of services hereunder by Cardinal, regardless whether such claim is based upon any of the above stated reasons or otherwise.				1	1	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX				Project Owner: DCP Midstream		Zip: 88240			BILL ]
CHECKED BY: (Initials)		tort, shall be limited to th ceived by Cardinal within 1 of use, or loss of profils ased upon any of the abo		<	<	<	<	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV	Fax #:	4		City: Hobbs	Address: 262	Attn: Kyle Norman	Company: Tasman Geo	P.O. #:	- 10(070)
email results to: knorman@tasmar bgriffin@tasman-geo.com, SWWeathers@dcpmidstream.com	Phone Result: Fax Result: REMARKS:	Crittort, shall be limited to the announi paid by the client for the of neerived by Cardinal within 30 days after completion of the lass of use, or lass of profile incurred by client, its subsidiaries is based upon any of the above stated reasons or otherwise.		1/13/21	1/13/21	1/13/21	-	DATE TIME	SANDI INC	10-010-011	5-218-5017	Zip: 88240		Address: 2620 W. Marland	orman	asman Geo		1020
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to: knorman@tasman-geo.com, nan-geo.com, @dcpmidstream.com		t				-	+		-		-	-	-	-	_		NEWDEOI	IFOT

### Received by OCD: 3/23/2021 1:26:59 PM



February 02, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 01/28/21 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	•	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 02-Feb-21 09:36
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5 PT COMP BOTTOM - 1 @ 5'	H210208-01	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5 PT COMP BOTTOM - 2 @ 5'	H210208-02	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5 PT COMP BOTTOM - 3 @ 5'	H210208-03	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5PT. COMP NORTH WALL	H210208-04	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5PT. COMP WEST WALL	H210208-05	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5PT. COMP EAST WALL	H210208-06	Soil	28-Jan-21 00:00	28-Jan-21 13:45
5PT. COMP SOUTH WALL	H210208-07	Soil	28-Jan-21 00:00	28-Jan-21 13:45

02/02/21 - BTEX and Chlorides were added to samples -02, -03, -04, -05 and -07 on 02/01/21. This is the revised report and will replace the one sent on 01/29/21.

### Cardinal Laboratories

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keine

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		DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 02-Feb-21 09:36
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### 5 PT COMP BOTTOM - 1 @ 5'

### H210208-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by	GC FID									S-04
GRO C6-C10*	12.3		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	1610		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	382		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane			98.0 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			200 %	42.2	-156	1012802	MS	28-Jan-21	8015B	

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:DCP - 11117 LINE LEAK 2ReportProject Number:NRM201695424902-FebProject Manager:KYLE NORMANFax To:							
		5 PT COMP		0	•				
		H2I	)208-02 (So	)  )					
Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Chloride	32.0	16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 802	21							
Benzene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	101 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	43.4	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	17.7	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane		95.9 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		104 %	42.2	-156	1012802	MS	28-Jan-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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:DCP - 11117 LINE LEAK 2ReportProject Number:NRM201695424902-Feb-2Project Manager:KYLE NORMANFax To:							
		5 PT COMP			•				
		H2102	208-03 (So	011)					
Analyte	Result M	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	32.0	16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (H	PID)	100 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by	y GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	21.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane		98.2 %	44.3-	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		106 %	42.2-	-156	1012802	MS	28-Jan-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221								Reported: 2-Feb-21 09:	36	
			5PT. COMI H210	P NORT						
			Reporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PII	))		99.6 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	14.6		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane			98.5 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			102 %	42.2-	-156	1012802	MS	28-Jan-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: DCP - 11117 LINE LEAK 2 F Project Number: NRM2016954249 02-1 Project Manager: KYLE NORMAN Fax To:								36
		5PT. COM H210	1P WEST )208-05 (So						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds Chloride	48.0	16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
			iiig/kg		1020110	ne	0110021	1500 61 B	
Volatile Organic Compound Benzene*	<0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)	99.9 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	23.9	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane		99.2 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane		105 %	42.2	-156	1012802	MS	28-Jan-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project:DCP - 11117 LINE LEAK 2Reported:Project Number:NRM201695424902-Feb-21 09:36Project Manager:KYLE NORMANFax To:								
			5PT. COM H2102	IP EAST 208-06 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	125		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	39.7		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane			97.2 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			119 %	42.2	-156	1012802	MS	28-Jan-21	8015B	

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### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	<b>,</b>								Reported: 2-Feb-21 09:	36
			5PT. COM	P SOUTI 208-07 (So						
					,,,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 802	1								
Benzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PII	))		101 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
DRO >C10-C28*	18.8		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctane			103 %	44.3	-144	1012802	MS	28-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			111 %	42.2	-156	1012802	MS	28-Jan-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Analyte

RPD

Limit

Notes



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

### Analytical Results For:

TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	•	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 02-Feb-21 09:36	
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### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories** Spike %REC Reporting Source Result %REC RPD Limit Units Level Result Limits Batch 1020118 - 1:4 DI Water

Blank (1020118-BLK1)	Prepared & Analyzed: 01-Feb-21									
Chloride	ND	16.0	mg/kg							
LCS (1020118-BS1)				Prepared & An	alyzed: 01-Feb-21					
Chloride	400	16.0	mg/kg	400	100	80-120				
LCS Dup (1020118-BSD1)				Prepared & An	alyzed: 01-Feb-21					
Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20		

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: D Project Number: N Project Manager: K Fax To:		Reported: 02-Feb-21 09:36
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020113 - Volatiles										
Blank (1020113-BLK1)				Prepared &	Analyzed:	01-Feb-21				
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)	0.0503		mg/kg	0.0500		101	73.3-129			
LCS (1020113-BS1)				Prepared &	Analyzed:	01-Feb-21				
Benzene	2.24	0.050	mg/kg	2.00		112	72.2-131			
Toluene	2.18	0.050	mg/kg	2.00		109	71.7-126			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	68.9-126			
Total Xylenes	6.31	0.150	mg/kg	6.00		105	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	73.3-129			
LCS Dup (1020113-BSD1)				Prepared &	Analyzed:	01-Feb-21				
Benzene	2.13	0.050	mg/kg	2.00		106	72.2-131	5.45	14.6	
Toluene	2.07	0.050	mg/kg	2.00		104	71.7-126	5.03	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	4.86	18.9	
Total Xylenes	6.03	0.150	mg/kg	6.00		100	71.4-125	4.55	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	73.3-129			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	•	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 02-Feb-21 09:36
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### Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories
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Analyte         Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit         I           Batch 1012802 - General Prep - Organics         Bank (1012802-BLK1)         Prepared & Analyzed: 28-Jan-21         Vertex         Ver			Denerting		C. iles	C		%REC		RPD	
Prepared & Analyzed: 28-Jan-21           Bank (1012802-BLK1)         Prepared & Analyzed: 28-Jan-21           iRO C6-C10         ND         10.0         mg/kg           jRO C5-C10-C28         ND         10.0         mg/kg           jurrogate: 1-Chlorooctane         43.5         mg/kg         50.0         87.0         44.3-144           jurrogate: 1-Chlorooctane         47.1         mg/kg         20.0         111         83.7-135           cCS (012802-BS1)         Prepared & Analyzed: 28-Jan-21	Analyte	Pecult		Unite			%PEC		RDD		Notes
Blank (1012802-BLK1)       Prepared & Analyzed: $28$ -Jan-21         iRO C6-C10       ND       10.0       mg/kg         iRO C5-C10-C28       ND       10.0       mg/kg         iXT DRO >C28-C36       ND       10.0       mg/kg         iurrogate: 1-Chlorooctane       43.5       mg/kg $50.0$ $87.0$ $44.3$ - $144$ iurrogate: 1-Chlorooctadecane       47.1       mg/kg $50.0$ $94.2$ $42.2$ - $156$ CS (1012802-BS1)       Prepared & Analyzed: $28$ -Jan-21	Anaryte	Result	Liiiit	Ollits	Level	Result	70KLC	Lillits	KI D	Linin	Notes
IRO C6-C10       ND $10.0$ $mg/kg$ DRO >C10-C28       ND $10.0$ $mg/kg$ SIXT DRO >C28-C36       ND $10.0$ $mg/kg$ SIXT DRO >C28-C36 $43.5$ $mg/kg$ $50.0$ $87.0$ $44.3-144$ SiXT DRO >C28-C38 $218$ $10.0$ $mg/kg$ $400$ $110$ $83.1-133$ SiXT DRO >C10-C28 $440$ $10.0$ $mg/kg$ $50.0$ $112$ $42.2-156$ SiXT DRO >C10-C28 $440$ $10.0$ $mg/kg$ $50.0$ $110$ $83.1-133$ SiXT orgate: <i>I</i> -Chlorooctane $52.7$ $mg/kg$ $50.0$ $112$ $42.2-156$ CS Dup (1012802-BSD1)       Prepared & Analyzed: 28-Jan-21 $1$	Batch 1012802 - General Prep - Organics										
ND10.0 $mg/kg$ mg/kgEXT DRO >C28-C36ND10.0 $mg/kg$ turogate: 1-Chlorooctane43.5 $mg/kg$ 50.087.044.3-144turogate: 1-Chlorooctadecane47.1 $mg/kg$ 50.094.242.2-156Prepared & Analyzed: 28-Jan-21CCS (1012802-BS1)Prepared & Analyzed: 28-Jan-21SRO C6-C1022310.0 $mg/kg$ 20011183.7-135ORO >C10-C2821810.0 $mg/kg$ 20010980.4-13o'tal TPH C6-C2844010.0 $mg/kg$ 50.010544.3-144turogate: 1-Chlorooctane52.7 $mg/kg$ 50.010544.3-144State State St	Blank (1012802-BLK1)				Prepared &	Analyzed:	28-Jan-21				
ND         10.0         mg/kg           iurrogate: 1-Chlorooctane         43.5         mg/kg         50.0         87.0         44.3-144           iurrogate: 1-Chlorooctane         47.1         mg/kg         50.0         94.2         42.2-156           ICS (1012802-BS1)         Prepared & Analyzed: 28-Jan-21	GRO C6-C10	ND	10.0	mg/kg							
Surrogate:         1-Chlorooctane         43.5         mg/kg         50.0         87.0         44.3-144           'urrogate:         1-Chlorooctadecane         47.1         mg/kg         50.0         94.2         42.2-156           CCS (1012802-BS1)         Prepared & Analyzed:         28-Jan-21         Prepared & Analyzed:         28-Jan-21           JRO C6-C10         223         10.0         mg/kg         200         111         83.7-135           JRO C6-C10         218         10.0         mg/kg         200         109         80.4-133           JORO >C10-C28         218         10.0         mg/kg         50.0         105         44.3-144           Jurrogate:         1-Chlorooctane         52.7         mg/kg         50.0         112         42.2-156           Jurrogate:         1-Chlorooctane         55.8         mg/kg         50.0         112         42.2-156           Jurrogate:         1-Chlorooctane         52.7         mg/kg         200         110         83.7-135         0.872         13.8           Jurrogate:         1-Chlorooctane         221         10.0         mg/kg         200         110         83.7-135         0.872         13.8           JRO C6-C10	DRO >C10-C28	ND	10.0	mg/kg							
Arrogate: 1-Chlorooctadecane       47.1       ng/kg       50.0       94.2       42.2-156         CCS (1012802-BS1)       Prepared & Analyzed: 28-Jan-21       Prepared & Analyzed: 28-Jan-21       Standard (1998)       Standard (1998) </td <td>EXT DRO &gt;C28-C36</td> <td>ND</td> <td>10.0</td> <td>mg/kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	EXT DRO >C28-C36	ND	10.0	mg/kg							
CS (1012802-BS1)       Prepared & Analyzed: 28-Jan-21         GRO C6-C10       223       10.0       mg/kg       200       111       83.7-135         ORO >C10-C28       218       10.0       mg/kg       200       109       80.4-133         Oral TPH C6-C28       440       10.0       mg/kg       400       110       83.1-133         Ourrogate: 1-Chlorooctane       52.7       mg/kg       50.0       105       44.3-144         Ourrogate: 1-Chlorooctane       55.8       mg/kg       50.0       112       42.2-156         CS Dup (1012802-BSD1)       Prepared & Analyzed: 28-Jan-21       13.8       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO >C10-C28       211       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO >C10-C28       218       10.0       mg/kg       200       100       83.1-133       0.3950       17.7         ORO >C10-C28       218       10.0       mg/kg       400       110       83.1-133       0.395       17.7         Oral TPH C6-C28       439       10.0       mg/kg       50.0       104       44.3-144       17.7	Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	44.3-144			
BRO C6-C10       223       10.0       mg/kg       200       111       83.7-135         DRO >C10-C28       218       10.0       mg/kg       200       109       80.4-133         Sotal TPH C6-C28       440       10.0       mg/kg       400       110       83.1-133         Sotal TPH C6-C28       440       10.0       mg/kg       50.0       105       44.3-144         Sotal TPH C6-C28       52.7       mg/kg       50.0       112       42.2-156         Sotal TPH C6-C28       55.8       mg/kg       50.0       112       42.2-156         CCS Dup (1012802-BSD1)       Prepared & Analyzed: 28-Jan-21         CCS Dup (1012802-BSD1)       Prepared & Analyzed: 28-Jan-21         GRO <c10< td="">       221       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO &gt;C10-C28       218       10.0       mg/kg       200       109       80.4-133       0.0900       22.1         Gotal TPH C6-C28       439       10.0       mg/kg       400       110       83.1-133       0.395       17.7         Sotal TPH C6-C28       439       10.0       mg/kg       50.0       104       44.3-144       144.3-</c10<>	Surrogate: 1-Chlorooctadecane	47.1		mg/kg	50.0		94.2	42.2-156			
DRO >C10-C28       218       10.0       mg/kg       200       109       80.4-133         TPH C6-C28       440       10.0       mg/kg       400       110       83.1-133         turrogate: 1-Chlorooctane       52.7       mg/kg       50.0       105       44.3-144         turrogate: 1-Chlorooctadecane       55.8       mg/kg       50.0       112       42.2-156         CCS Dup (1012802-BSD1)       Prepared & Analyzed: 28-Jan-21         GRO C6-C10       221       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO >C10-C28       218       10.0       mg/kg       200       109       80.4-133       0.0900       22.1         Grad TPH C6-C28       439       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO >C10-C28       218       10.0       mg/kg       200       109       80.4-133       0.0900       22.1         Grad TPH C6-C28       439       10.0       mg/kg       400       110       83.1-133       0.395       17.7         turrogate: 1-Chlorooctane       52.1       mg/kg       50.0       104       44.3-144       144.3-144       144.3-	LCS (1012802-BS1)				Prepared &	Analyzed:	28-Jan-21				
Yotal TPH C6-C28     440     10.0     mg/kg     400     110     83.1-133       turrogate: 1-Chlorooctane     52.7     mg/kg     50.0     105     44.3-144       turrogate: 1-Chlorooctadecane     55.8     mg/kg     50.0     112     42.2-156       LCS Dup (1012802-BSD1)     Prepared & Analyzed: 28-Jan-21     10.0     mg/kg     200     110     83.7-135     0.872     13.8       GRO C6-C10     221     10.0     mg/kg     200     109     80.4-133     0.0900     22.1       GRO >C10-C28     218     10.0     mg/kg     400     110     83.1-133     0.395     17.7       Grad TPH C6-C28     439     10.0     mg/kg     50.0     104     44.3-144	GRO C6-C10	223	10.0	mg/kg	200		111	83.7-135			
Discrete       State	DRO >C10-C28	218	10.0	mg/kg	200		109	80.4-133			
Durrogate: 1-Chlorooctadecane     55.8     mg/kg     50.0     112     42.2-156       LCS Dup (1012802-BSD1)     Prepared & Analyzed: 28-Jan-21       JCS Dup (1012802-BSD1)     221     10.0     mg/kg     200     110     83.7-135     0.872     13.8       ORO >C10-C28     218     10.0     mg/kg     200     109     80.4-133     0.0900     22.1       Ordat TPH C6-C28     439     10.0     mg/kg     400     110     83.1-133     0.395     17.7	Total TPH C6-C28	440	10.0	mg/kg	400		110	83.1-133			
CCS Dup (1012802-BSD1)         Prepared & Analyzed: 28-Jan-21           GRO C6-C10         221         10.0         mg/kg         200         110         83.7-135         0.872         13.8           ORO >C10-C28         218         10.0         mg/kg         200         109         80.4-133         0.0900         22.1           Ordal TPH C6-C28         439         10.0         mg/kg         400         110         83.1-133         0.395         17.7           Drurogate: 1-Chlorooctane         52.1         mg/kg         50.0         104         44.3-144         44.3-144	Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	44.3-144			
GRO C6-C10       221       10.0       mg/kg       200       110       83.7-135       0.872       13.8         ORO >C10-C28       218       10.0       mg/kg       200       109       80.4-133       0.0900       22.1         otal TPH C6-C28       439       10.0       mg/kg       400       110       83.1-133       0.395       17.7         burrogate: 1-Chlorooctane       52.1       mg/kg       50.0       104       44.3-144	Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	42.2-156			
DRO >C10-C28         218         10.0         mg/kg         200         109         80.4-133         0.0900         22.1           Sotal TPH C6-C28         439         10.0         mg/kg         400         110         83.1-133         0.395         17.7           Surrogate: 1-Chlorooctane         52.1         mg/kg         50.0         104         44.3-144	LCS Dup (1012802-BSD1)				Prepared &	Analyzed:	28-Jan-21				
Sotal TPH C6-C28         439         10.0         mg/kg         400         110         83.1-133         0.395         17.7 <i>hurrogate: 1-Chlorooctane</i> 52.1         mg/kg         50.0         104         44.3-144	GRO C6-C10	221	10.0	mg/kg	200		110	83.7-135	0.872	13.8	
<i>iurrogate: 1-Chlorooctane</i> 52.1 mg/kg 50.0 104 44.3-144	DRO >C10-C28	218	10.0	mg/kg	200		109	80.4-133	0.0900	22.1	
	Total TPH C6-C28	439	10.0	mg/kg	400		110	83.1-133	0.395	17.7	
'urrogate: 1-Chlorooctadecane 56.8 mg/kg 50.0 114 42.2-156	Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	44.3-144			
	Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	42.2-156			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Name: anager:	Tasman Geosciences, LLC Kyle Norman	P.O. #: Company: Tasman Geo	2/1		
Address: 2620 W Marland Bivo City: Hobbs	G State: NM Zip: 88240	Attn: Kyle Norman	dela led 2	nior	
Phone #: 575-318-5017	Fax #:	Address: 2620 W. Marland	M		
Project #: NRM 2016954249	Project Owner: DCP Midstream	S	51	ns	-
Project #: INDIVI 2010001-1-1		State: NM Zip: 88240	ide 015	-	
Project Name: UCF	240	Phone #: 575-318-5017	orio 80 TE		U
Project Location: 11117 Line Le	Leak Z	Eau #		С	D
Sampler Name: Becky Griffin		Fax #:	Ch		
Sampler Name: Becky Grittin	MATRIX	PRESERV. SAMPLING	CP	-	-
Lab I.D. Sample I.D.	RAB OR (C)OMP. ONTAINERS OUNDWATER	UDGE	-	Comple	
5 PT Comp. Bottom-1 @ 5		V 1/28/21			~
5 PT Comp. Bottom-2 @ 5	n-2@5' 1 🗸	<ul><li>✓ 1/28/21</li></ul>	X X		~
3 5 PT Comp. Bottom-3 @ 5	m-3@5 1 1	V 1/28/21	X X X		~
		V 1/28/21	-		~
5 PT Comp West Wall			V . V		~
6 5 PT Comp. East Wall			XVX		
5 PT Comp. South Wall	n Wall	1710711			
PLEASE NOTE: Liability and Damages. Cardinal's liability	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 applicable please. The plant of the applicable please is an universe in the source for nectoberies and any other cause whatboever shall be deemed waived unless making and received by Cardinal within 30 days after completion of the applicable please of the applicable please of the applicable please of the source for nectoberies and any other cause whatboever shall be deemed waived unless making and received by Cardinal within 30 days after completion of the applicable please of the applicable plant. Its subsidiaries	ang whether based in contract or tort, shall be limited to the amount paid by the client for the ang whether based in contract or tort, shall be limited to the amount paid by the completion of the ay the unless made in writing and received by Cardinal within 30 days after completion of the ay red unless made in writing and received by Cardinal within an output of the ay the unless of the state of the	by the client for the completion of the applicable ont, its subsidiaries		
service. In no event shall Cardnau be liable for incidental or or affiliates or successors articing out of or related to the performa Relinquished By:	or consequential animation, research to Cardinal, regardless of whether such dail brmance of services hereander by Cardinal, regardless of whether such dail Date:	h daim is based upon any of the above stated rear	□ Yes	No Add'l Phone #:     No Add'l Fax #:	77
Relinquished By:		Aldad of	email results to: knorman( bgriffin@tasman-geo.com	ts to: knorman@tasman-geo.com, isman-geo.com,	nan-
Delivered By: (Circle One)	o Hila Sample	s Gres (Initials)	Swweathers@ucphilusa.com.com	piniconcom	

Released to Imaging: 7/20/2021 8:47:15 PM



February 02, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 01/29/21 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:			Reported: 02-Feb-21 09:41
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5 PT COMP BOTTOM - 1 @ 8'	H210222-01	Soil	29-Jan-21 00:00	29-Jan-21 14:40

02/02/21 - BTEX and Chloride was added to sample -01 on 02/01/21. This is the revised report and will replace the one sent on 02/01/21.

### Cardinal Laboratories

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: DCP - 11117 LINE LEAK 2 Project Number: NRM2016954249 Project Manager: KYLE NORMAN Fax To:	Reported: 02-Feb-21 09:41
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### 5 PT COMP BOTTOM - 1 @ 8'

			H2102	222-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1020118	AC	01-Feb-21	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1020113	MS	01-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	1020113	MS	01-Feb-21	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B	
DRO >C10-C28*	58.4		10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B	
EXT DRO >C28-C36	19.0		10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B	
Surrogate: 1-Chlorooctane			99.5 %	44.3	-144	1012901	MS	29-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			110 %	42.2	-156	1012901	MS	29-Jan-21	8015B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to reproduced except in full with written approval of Cardinal Lobarotories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: DCP - 111 Project Number: NRM20169 Project Manager: KYLE NOR Fax To:						2	0	Reported: 2-Feb-21 09:	41
5 PT COMP EAST WALL EXTENDED H210222-02 (Soil)										
Analyte	Result	MDL	Reporting Limit U	Inits Dil	ution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										

### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B
DRO >C10-C28*	93.4	10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B
EXT DRO >C28-C36	21.1	10.0	mg/kg	1	1012901	MS	29-Jan-21	8015B
Surrogate: 1-Chlorooctane		105 %	44.3-14	4	1012901	MS	29-Jan-21	8015B
Surrogate: 1-Chlorooctadecane		115 %	42.2-150	5	1012901	MS	29-Jan-21	8015B

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	•	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 02-Feb-21 09:41	
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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
Batch 1020118 - 1:4 DI Water										
Blank (1020118-BLK1)				Prepared &	Analyzed:	01-Feb-21				
Chloride	ND	16.0	mg/kg							
LCS (1020118-BS1)				Prepared &	Analyzed:	01-Feb-21				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (1020118-BSD1)				Prepared &	Analyzed:	01-Feb-21				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

### Cardinal Laboratories

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to reproduced except in full with written approval of Cardinal Lobarotories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 02-Feb-21 09:41
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020113 - Volatiles										
Blank (1020113-BLK1)				Prepared &	Analyzed:	01-Feb-21				
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)	0.0503		mg/kg	0.0500		101	73.3-129			
LCS (1020113-BS1)				Prepared &	Analyzed:	01-Feb-21				
Benzene	2.24	0.050	mg/kg	2.00		112	72.2-131			
Toluene	2.18	0.050	mg/kg	2.00		109	71.7-126			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	68.9-126			
Total Xylenes	6.31	0.150	mg/kg	6.00		105	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	73.3-129			
LCS Dup (1020113-BSD1)				Prepared &	Analyzed:	01-Feb-21				
Benzene	2.13	0.050	mg/kg	2.00		106	72.2-131	5.45	14.6	
Toluene	2.07	0.050	mg/kg	2.00		104	71.7-126	5.03	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	4.86	18.9	
Total Xylenes	6.03	0.150	mg/kg	6.00		100	71.4-125	4.55	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	73.3-129			

### **Cardinal Laboratories**

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to reproduced except in full with written approval of Cardinal Lobarotories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 02-Feb-21 09:41
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### Petroleum Hydrocarbons by GC FID - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1012901 - General Prep - Organics										
Blank (1012901-BLK1)				Prepared &	Analyzed:	29-Jan-21				
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	42.3		mg/kg	50.0		84.6	44.3-144			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	42.2-156			
LCS (1012901-BS1)				Prepared &	z Analyzed:	29-Jan-21				
GRO C6-C10	218	10.0	mg/kg	200		109	83.7-135			
DRO >C10-C28	211	10.0	mg/kg	200		105	80.4-133			
Total TPH C6-C28	429	10.0	mg/kg	400		107	83.1-133			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	44.3-144			
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	42.2-156			
LCS Dup (1012901-BSD1)				Prepared &	Analyzed:	29-Jan-21				
GRO C6-C10	233	10.0	mg/kg	200		116	83.7-135	6.50	13.8	
DRO >C10-C28	221	10.0	mg/kg	200		110	80.4-133	4.66	22.1	
Total TPH C6-C28	454	10.0	mg/kg	400		113	83.1-133	5.60	17.7	
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	44.3-144			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	42.2-156			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 3/23/2021 1:26:59 PM

Page 9 of 9

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



February 04, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

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: Project Number: Project Manager: Fax To:			Reported: 04-Feb-21 09:15
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5 PT COMP EAST WALL EXTENDED	H210247-01	Soil	01-Feb-21 00:00	01-Feb-21 15:35

02/04/21 - Client added BTEX and Chloride on 02/03/21. This is the revised report and will replace the one sent on 02/02/21.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	,	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 04-Feb-21 09:15
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### 5 PT COMP EAST WALL EXTENDED H210247-01 (Soil)

				(	/					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1020309	GM	03-Feb-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1020304	MS	03-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1020304	MS	03-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1020304	MS	03-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1020304	MS	03-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1020304	MS	03-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	1020304	MS	03-Feb-21	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1020116	MS	02-Feb-21	8015B	
DRO >C10-C28*	10.3		10.0	mg/kg	1	1020116	MS	02-Feb-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1020116	MS	02-Feb-21	8015B	
Surrogate: 1-Chlorooctane			95.4 %	44.3	-144	1020116	MS	02-Feb-21	8015B	
Surrogate: 1-Chlorooctadecane			95.2 %	42.2	-156	1020116	MS	02-Feb-21	8015B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

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	•	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 04-Feb-21 09:15
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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
Batch 1020309 - 1:4 DI Water										
Blank (1020309-BLK1)				Prepared &	Analyzed:	03-Feb-21				
Chloride	ND	16.0	mg/kg							
LCS (1020309-BS1)				Prepared &	Analyzed:	03-Feb-21				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (1020309-BSD1)				Prepared &	Analyzed:	03-Feb-21				
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	<b>,</b>	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 04-Feb-21 09:15
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labo	ratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020304 - Volatiles										
Blank (1020304-BLK1)				Prepared &	Analyzed:	03-Feb-21				
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)	ND		mg/kg	0.0500		99.5	73.3-129			
LCS (1020304-BS1)				Prepared &	Analyzed:	03-Feb-21				
Benzene	2.14	0.050	mg/kg	2.00		107	72.2-131			
Toluene	2.11	0.050	mg/kg	2.00		105	71.7-126			
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	68.9-126			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	73.3-129			
LCS Dup (1020304-BSD1)				Prepared &	Analyzed:	03-Feb-21				
Benzene	2.26	0.050	mg/kg	2.00		113	72.2-131	5.17	14.6	
Toluene	2.22	0.050	mg/kg	2.00		111	71.7-126	5.06	17.4	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	68.9-126	5.27	18.9	
Total Xylenes	6.30	0.150	mg/kg	6.00		105	71.4-125	4.84	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	73.3-129			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: [ Project Number: M Project Manager: H Fax To:		Reported: 04-Feb-21 09:15
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### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020116 - General Prep - Organics										
Blank (1020116-BLK1)				Prepared: (	)1-Feb-21 A	analyzed: 0	2-Feb-21			
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	53.1		mg/kg	50.0		106	44.3-144			
Surrogate: 1-Chlorooctadecane	54.1		mg/kg	50.0		108	42.2-156			
LCS (1020116-BS1)				Prepared: (	)1-Feb-21 A	analyzed: 0	2-Feb-21			
GRO C6-C10	170	10.0	mg/kg	200		84.9	83.7-135			
DRO >C10-C28	174	10.0	mg/kg	200		87.1	80.4-133			
Total TPH C6-C28	344	10.0	mg/kg	400		86.0	83.1-133			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	44.3-144			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	42.2-156			
LCS Dup (1020116-BSD1)				Prepared: (	)1-Feb-21 A	analyzed: 0	2-Feb-21			
GRO C6-C10	187	10.0	mg/kg	200		93.5	83.7-135	9.64	13.8	
DRO >C10-C28	190	10.0	mg/kg	200		95.1	80.4-133	8.81	22.1	
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	83.1-133	9.22	17.7	
Surrogate: 1-Chlorooctane	55.6		mg/kg	50.0		111	44.3-144			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	42.2-156			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

† Cardinal	Delivered By Sampler - UPS		telinquished By:	elinquished By:	LEASE NOTE: Liabelity a talyses, All claims includ svice. In no event shall ( filiates or successors aris					Hallo AM	Lab I.D.
Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		A A A	N W W	EASE NOTE: Listelly and comages. Carama's stanty and cerets excauser removy on any own owney windurd unders on owney or some or abyes. All chains including those for negligence and any other cause whatboever shall be deemed waived unless muce in witing and received by Cardinal's vivice. In no event shall Cardinal be listels for incidential or consequential damages, including without limitation, business interruptions, loss of user, or loss of particular listes or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the				5 PT Comp East Wall Extended		Sample I.D.
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PLEASE NOTE: Liability and Damages. Cardinal's liability and clereft: exclusive remedy for any claim asing whether based in contract or text, shall be limited to the amount public 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 attention of text and be interest or text, shall be limited to the amount public for any claim asing whether based in contract text, shall be limited to the amount public for allele for including those for megligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the attention of text and the performance of excincts by clarifical, transmitter, business interruptions, less of use, or tors of profits insured by eacher, its substitution affinities or use on any of the above the dark of whether work claim is based upon any of the above resons or or denotes the dark of the attended by the clerent. The above the dark of the attended by Cardinal within 30 days after completion of the attended by the dark of the attended by the dark of text. Its substitutions, business attending whether work claim is based upon any of the above text. Its substitutions after the attended by Cardinal within 30 days after completion of the attended by Cardinal within 30 days after completion of the attended by the attended by Cardinal within 30 days after completion of the attended by th	2250	abail be limited to the amount pa d by Cardinal within 30 days att upon any of the above stated r	that be limited to the amount paid by the client for the applica e, or loss of profile incurred to address and reasons or otherwise. upon any of the above stated reasons or otherwise. Fax Result: REMARKS:	PEASE NOTE: Liability and Danages. Cardinar's lability and clerify arcitable remedy for any daim arking whether based in contrast or lort, shall be limited to the amount paid by the client for the analyse. At datins including those for negligence and any other cause whatocerer shall be deemed waived unless made in writing and received by Cardinals belief to the amount paid by the client for the analyse. At datins including without furtilition, visualizes interruptions, loss of une, or loss of profile incurred by diart, its substitution or that applicable affinites or successors arking out of or related to the performance of services hrewards by Cardinal, regardless of whether such datin is based upon any of the above stable room or dimense.  Reclinquished By: Date: Date: Yes Fax Result: Yes	It: poleable		tt: D Yes 2
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Rus

Company Name:

Tasman Geosciences, LLC

BILL TO

ANALYSIS

REQUEST



February 09, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 2

Enclosed are the results of analyses for samples received by the laboratory on 02/05/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

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		oject Number:	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 09-Feb-21 16:54
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5PT. COMP NORTH WALL - 2 EXT	H210307-01	Soil	04-Feb-21 00:00	05-Feb-21 15:35

02/09/21 - Client added BTEX and Chlorides on 02/09/21. This is the revised report and will replace the one sent on 02/08/21.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	,	DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 09-Feb-21 16:54
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### 5PT. COMP NORTH WALL - 2 EXT H210307-01 (Soil)

					,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1020915	AC	09-Feb-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1020811	MS	09-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1020811	MS	09-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1020811	MS	09-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1020811	MS	09-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1020811	MS	09-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	1020811	MS	09-Feb-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1020518	MS	06-Feb-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1020518	MS	06-Feb-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1020518	MS	06-Feb-21	8015B	
Surrogate: 1-Chlorooctane			89.0 %	44.3	-144	1020518	MS	06-Feb-21	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	42.2	-156	1020518	MS	06-Feb-21	8015B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: DCP - Project Number: NRM2I Project Manager: KYLE I Fax To:		Reported: 09-Feb-21 16:54	
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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
Batch 1020915 - 1:4 DI Water										
Blank (1020915-BLK1)				Prepared &	Analyzed:	09-Feb-21				
Chloride	ND	16.0	mg/kg							
LCS (1020915-BS1)				Prepared &	Analyzed:	09-Feb-21				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (1020915-BSD1)				Prepared &	Analyzed:	09-Feb-21				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 09-Feb-21 16:54	
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Denerti		C 11	C		0/DEC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Liiiit	Units	Level	Kesuit	/0KEC	Lillins	KFD	Liiiit	INDICES
Batch 1020811 - Volatiles										
Blank (1020811-BLK1)				Prepared: (	8-Feb-21 A	analyzed: 0	9-Feb-21			
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)	0.0504		mg/kg	0.0500		101	73.3-129			
LCS (1020811-BS1)				Prepared: (	8-Feb-21 A	analyzed: 0	9-Feb-21			
Benzene	2.32	0.050	mg/kg	2.00		116	72.2-131			
Toluene	2.29	0.050	mg/kg	2.00		114	71.7-126			
Ethylbenzene	2.23	0.050	mg/kg	2.00		111	68.9-126			
Total Xylenes	6.47	0.150	mg/kg	6.00		108	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.3	73.3-129			
LCS Dup (1020811-BSD1)				Prepared: (	08-Feb-21 A	analyzed: 0	9-Feb-21			
Benzene	2.30	0.050	mg/kg	2.00		115	72.2-131	0.889	14.6	
Toluene	2.26	0.050	mg/kg	2.00		113	71.7-126	1.05	17.4	
Ethylbenzene	2.21	0.050	mg/kg	2.00		110	68.9-126	0.789	18.9	
Total Xylenes	6.42	0.150	mg/kg	6.00		107	71.4-125	0.788	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		<i>99.7</i>	73.3-129			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		DCP - 11117 LINE LEAK 2 NRM2016954249 KYLE NORMAN	Reported: 09-Feb-21 16:54
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### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020518 - General Prep - Organics										
Blank (1020518-BLK1)				Prepared: (	)5-Feb-21 A	analyzed: 0	6-Feb-21			
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	55.7		mg/kg	50.0		111	44.3-144			
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	42.2-156			
LCS (1020518-BS1)				Prepared: (	)5-Feb-21 A	analyzed: 0	6-Feb-21			
GRO C6-C10	231	10.0	mg/kg	200		115	83.7-135			
DRO >C10-C28	232	10.0	mg/kg	200		116	80.4-133			
Total TPH C6-C28	463	10.0	mg/kg	400		116	83.1-133			
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.1	44.3-144			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	42.2-156			
LCS Dup (1020518-BSD1)				Prepared: (	)5-Feb-21 A	analyzed: 0	6-Feb-21			
GRO C6-C10	235	10.0	mg/kg	200		117	83.7-135	1.91	13.8	
DRO >C10-C28	234	10.0	mg/kg	200		117	80.4-133	0.891	22.1	
Total TPH C6-C28	469	10.0	mg/kg	400		117	83.1-133	1.40	17.7	
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	44.3-144			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	42.2-156			

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/23/2021 1:26:59 PM

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Project Manager: Kyle Norman	Kyle Norman		Company: Tasman Geo		a		ns				
City: Hobbs	City: Hobbs State: NM	Zip: 88240	Attn: Kyle Norman	1	1		nio		_	_	_
Phone #: 575-318-5017	8-5017 Fax #:		Address: 2620 W. Marland	and	1	1	/A	_	_	_	
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Page 8 of 8



February 22, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 1-3

Enclosed are the results of analyses for samples received by the laboratory on 02/08/21 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

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		oject Number:	KYLE NORMAN	Reported: 22-Feb-21 10:24
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5 PT COMP IMPORTED TOP SOIL	H210314-01	Soil	08-Feb-21 00:00	08-Feb-21 15:00

02/22/21 - Client added BTEX and Chloride on 02/19/21. This is the revised report and will replace the one sent on 02/09/21.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

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 Number: Project Manager:	KYLE NORMAN	Reported: 22-Feb-21 10:24	
	Fax To:			

### 5 PT COMP IMPORTED TOP SOIL H210314-01 (Soil)

				(	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1021905	GM	22-Feb-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1021902	MS	19-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1021902	MS	19-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1021902	MS	19-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1021902	MS	19-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1021902	MS	19-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3	-129	1021902	MS	19-Feb-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1020824	MS	09-Feb-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1020824	MS	09-Feb-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1020824	MS	09-Feb-21	8015B	
Surrogate: 1-Chlorooctane			98.2 %	44.3	-144	1020824	MS	09-Feb-21	8015B	
Surrogate: 1-Chlorooctadecane			102 %	42.2	-156	1020824	MS	09-Feb-21	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 22-Feb-21 10:24
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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
Batch 1021905 - 1:4 DI Water										
Blank (1021905-BLK1)				Prepared &	Analyzed:	19-Feb-21				
Chloride	ND	16.0	mg/kg							
LCS (1021905-BS1)				Prepared &	Analyzed:	19-Feb-21				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (1021905-BSD1)				Prepared &	Analyzed:	19-Feb-21				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: DC Project Number: NC Project Manager: KY Fax To:	of Given	Reported: 22-Feb-21 10:24
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1021902 - Volatiles										
Blank (1021902-BLK1)				Prepared &	Analyzed:	19-Feb-21				
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)	0.0505		mg/kg	0.0500		101	73.3-129			
LCS (1021902-BS1)				Prepared &	Analyzed:	19-Feb-21				
Benzene	2.09	0.050	mg/kg	2.00		105	72.2-131			
Toluene	2.07	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	73.3-129			
LCS Dup (1021902-BSD1)				Prepared &	Analyzed:	19-Feb-21				
Benzene	2.17	0.050	mg/kg	2.00		108	72.2-131	3.61	14.6	
Toluene	2.15	0.050	mg/kg	2.00		108	71.7-126	4.14	17.4	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	68.9-126	3.95	18.9	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	71.4-125	3.93	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.1	73.3-129			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCESProject:6899 PECOS ST. UNIT CProject Number:DENVER CO, 80221Project Manager:Fax To:Fax To:	
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### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1020824 - General Prep - Organics										
Blank (1020824-BLK1)				Prepared &	Analyzed:	08-Feb-21				
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	46.8		mg/kg	50.0		93.7	44.3-144			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.6	42.2-156			
LCS (1020824-BS1)				Prepared &	Analyzed:	08-Feb-21				
GRO C6-C10	225	10.0	mg/kg	200		113	83.7-135			
DRO >C10-C28	227	10.0	mg/kg	200		113	80.4-133			
Total TPH C6-C28	452	10.0	mg/kg	400		113	83.1-133			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.7	44.3-144			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	42.2-156			
LCS Dup (1020824-BSD1)				Prepared &	Analyzed:	08-Feb-21				
GRO C6-C10	233	10.0	mg/kg	200		117	83.7-135	3.43	13.8	
DRO >C10-C28	231	10.0	mg/kg	200		115	80.4-133	1.66	22.1	
Total TPH C6-C28	464	10.0	mg/kg	400		116	83.1-133	2.55	17.7	
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	44.3-144			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.8	42.2-156			

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abik

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

Company Name			ľ		I	l		l	I	н			
Project Manager: Mana	sciences		BILL IU		-	-	-	A	ANALYSIS		REQUEST		
Address: 2620 W. Marland Blvd	Blvd.		Company: Tasman Geo	Geo		_			5				
City: Hobbs	State: NM	Zip: 88240	Attn: Kyle Norman		_		_				_		_
Phone #: 575-318-5017	Fax #:		Address: 2620 W. Marland	larland	_	_		l ni	MI				
Project #:	Project Ow	Project Owner: DCP Midstream	City: Hobbs			IVI			5/1	_			_
Project Name: 11117 Line Leak 1-3			State: NM Zip: 88240		les	15					2		
Project Location:			2			-	E)	-	DS			ISI	
Sampler Name: Frank Conejo Jr.			Fax #:			-	-	-	-	-		-	
FOR LAB USE ONLY	:	MATRIX	PRESERV. SAMPLING			-	-	-		_	ŀ		
Lab I.D. Sam	Sample I.D.	B)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL IL	THER : CID/BASE: E / COOL THER :			11	т	Complet	complet				
/ 5PT Comp. Imported Top Soil	orted Top Soil	~	<		1			2	R	J		<	
PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatoover shall be dense within stalls be dense made in writing and received by Cardinal within 30 days after completion of the applicable service. In or event shall Cardinal the labels for incorporated manages, including without imatidion, business interruptions, loss of uso, for so of profils incorrupt by client is substituies. affiliarities or successors arising out of or related to the performance of services hereafter by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise.	By and client's exclusive remody i any other cause whatsoever shall if or consequental damages, inclu formance of services hereunder i	ability and Damages. Cardinal's liability and client's exclusive remody for any claim artising whether based in contract or tort, shall be limited to the amount p including those for negligence and any other cruse whatloower shall be deemed wated unless make in writing and neewed by Cardinal within 30 days a shall cardinal be failed for incidential comequential damages, including whether limitation, business interruptions, loss of use, or loss of profils incurred by an anising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated	I or tort, shall be limited to the amount ( d received by Cardinal within 30 days a loss of use, or loss of profils incurred b is based upon any of the above stated	wid by the client for the fiter completion of the a y cliant, its subsidiaries reasons or otherwise.	plicable					ł			
Relinquished By:	Date/8/24 Time: /SOO	Received By:	July of	Phone Result: Fax Result: REMARKS:		Yes	No No	Ado	Add'l Phone #: Add'l Fax #:	r o rt			
Refinquished By:	Date: Time:	Received By:	J	email results: knorman@tasman-geo.com; bgriffin@tasman-geo.com,	Sults	man	s: knorman@ta man-geo.com	com	asm	an-g	eo.c	om;	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	8.30	H113 Sample Condition Cool Intact Yes TYes No No No	(Initials)	SWWeathers@dcpmidstream.com	ther	s@c	lcpm	dstr	eam	com			
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	orhal channes Plea	se fax written channes to	505-303-3476										



February 12, 2021

**KYLE NORMAN** 

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - 11117 LINE LEAK 1-3

Enclosed are the results of analyses for samples received by the laboratory on 02/10/21 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

### Analytical Results For:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221		Project: D oject Number: N ject Manager: K Fax To:		Reported: 12-Feb-21 08:55

02/12/21 - Client added BTEX and Chloride on 02/11/21. This is the revised report and will replace the one sent on 02/11/21.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 12-Feb-21 08:55
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### **IMPORTED BACKFILL**

### H210357-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	1021103	GM	11-Feb-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	3021								
Benzene*	< 0.050		0.050	mg/kg	50	1021106	MS	11-Feb-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1021106	MS	11-Feb-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1021106	MS	11-Feb-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1021106	MS	11-Feb-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1021106	MS	11-Feb-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3	-129	1021106	MS	11-Feb-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1021013	MS	11-Feb-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1021013	MS	11-Feb-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1021013	MS	11-Feb-21	8015B	
Surrogate: 1-Chlorooctane			80.8 %	44.3	-144	1021013	MS	11-Feb-21	8015B	
Surrogate: 1-Chlorooctadecane			77.4 %	42.2	-156	1021013	MS	11-Feb-21	8015B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 12-Feb-21 08:55
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### **Inorganic Compounds - Quality Control**

### Cardinal Laboratories Reporting Spike Source

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1021103 - 1:4 DI Water										
Blank (1021103-BLK1)				Prepared &	Analyzed:	11-Feb-21				
Chloride	ND	16.0	mg/kg							
LCS (1021103-BS1)				Prepared &	Analyzed:	11-Feb-21				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (1021103-BSD1)				Prepared &	Analyzed:	11-Feb-21				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 12-Feb-21 08:55
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labo	ratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1021106 - Volatiles										
Blank (1021106-BLK1)				Prepared &	Analyzed:	11-Feb-21				
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)	0.0504		mg/kg	0.0500		101	73.3-129			
LCS (1021106-BS1)				Prepared &	Analyzed:	11-Feb-21				
Benzene	2.08	0.050	mg/kg	2.00		104	72.2-131			
Toluene	2.03	0.050	mg/kg	2.00		102	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	68.9-126			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.2	73.3-129			
LCS Dup (1021106-BSD1)				Prepared &	Analyzed:	11-Feb-21				
Benzene	2.17	0.050	mg/kg	2.00		109	72.2-131	4.64	14.6	
Toluene	2.14	0.050	mg/kg	2.00		107	71.7-126	5.29	17.4	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	68.9-126	5.16	18.9	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	71.4-125	4.83	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.4	73.3-129			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER CO, 80221	Project: Project Number: Project Manager: Fax To:		Reported: 12-Feb-21 08:55
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### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1021013 - General Prep - Organics										
Blank (1021013-BLK1)				Prepared: 1	10-Feb-21 A	analyzed: 1	1-Feb-21			
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	42.2		mg/kg	50.0		84.4	44.3-144			
Surrogate: 1-Chlorooctadecane	37.9		mg/kg	50.0		75.7	42.2-156			
LCS (1021013-BS1)				Prepared &	z Analyzed:	10-Feb-21				
GRO C6-C10	225	10.0	mg/kg	200		112	83.7-135			
DRO >C10-C28	225	10.0	mg/kg	200		113	80.4-133			
Total TPH C6-C28	450	10.0	mg/kg	400		113	83.1-133			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.8	44.3-144			
Surrogate: 1-Chlorooctadecane	42.4		mg/kg	50.0		84.9	42.2-156			
LCS Dup (1021013-BSD1)				Prepared &	Analyzed:	10-Feb-21				
GRO C6-C10	226	10.0	mg/kg	200		113	83.7-135	0.508	13.8	
DRO >C10-C28	222	10.0	mg/kg	200		111	80.4-133	1.47	22.1	
Total TPH C6-C28	448	10.0	mg/kg	400		112	83.1-133	0.479	17.7	
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.0	44.3-144			
Surrogate: 1-Chlorooctadecane	41.6		mg/kg	50.0		83.2	42.2-156			

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

PLEASE NOTE: Liability and analyses. Al claims including service. In no wordt shall claim mithades or successors arising Relinquished BY Relinquished BY: Delifverred BY: Sampler - UPS		+21057	Lab I.D.		Project Location:	Project Name: 1	Project #:	Phone #: 575-318-5017	Address: 2620	Project Manager:	Company Name:	
Circle One)	Imported Backfill		Sample I.D.	Miguel Cardona Jr.		Project Name: 11117 Line Leak 1-3			Address: 2620 W. Marland Blvd.	Kyle Norman	Tasman Geosciences	(505) 393-2326 FAX (505) 393-2476
A S & #113							Project Owner: DCP Midstream	Fax #:	State: NM 2			505) 393-247
Rec			OR (C)OMP	-			DCP		Zip: 88240			
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CHECKED B (InitialS)		DATE		SAM		Phone #: 575-318-5017	Zip: 88240	Address: 2620 W. Mariano	Irman	Company: Tasman Geo		10
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Prince Result: <u>Yes <u>P</u> No <u>Add'l Phone #:</u> Fax Result: <u>Yes <u>P</u> No <u>Add'l Phone #:</u> Fax Result: <u>Yes <u>P</u> No <u>Add'l Fax #:</u> Fax Results: knorman@tasman-geo.com; Bgriffin@tasman-geo.com, SWWeathers@dcpmidstream.com</u></u></u>		<				-	SH	-		-		TST
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

### Page 104 of 124

### Appendix C

### **Photo Documentation**

### DCP Midstream

### 11117 Leak Location 2



### Excavating



### <<<Photo Description>>>

### DCP Midstream

### 11117 Leak Location 2



Excavation



### Excavation

### DCP Midstream

### 11117 Leak Location 2



### Excavation



Excavation

## **DCP Midstream**

## 11117 Leak Location 2



**Backfilled Excavation** 

Appendix D

Initial C-141

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III	State of New Mexico Energy Minerals and Natural Resources Department	Submit to ap	Form C-141 Revised August 24, 2018 propriate OCD District Office
1000 Rio Brazos Road, Aztec, NM 87410	-	Incident ID	

Incident ID	
District RP	
Facility ID	
Application ID	

Page 111 of 124

## **Release Notification**

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

## **Responsible Party**

Responsibly Party	DCP Operating Company, LP	OGRID 36785	
Contact Name	Stephen W Weathers	Contact Telephone	303-605-1718
Contact Email	SWWeathers@dcpmidstream.com	Incident # (assigned by OCD)	
Contact Mailing Address	370 17th Street, Suite 2500, Denve	er, CO 80202	

## **Location of Release Source**

Latitude	32.	.297758			Longitude		-10	4.2558	332		
		,	(Nad 83 in decim	al de	grees to 5 decimal pla	ces)					_
Site Name Na	tural Gas Gathe	ering Line #111	17 Leak Locat	ion 2	Site Type	6" St	eel Gas (	Gatherin	ng Pipe	line	
Date Release I	Discovered	07/1	9/19		API # (if applicable)						
Unit Letter	Section	Township	Range		County	1					
Р	14	238	26E	E	ldy County, NM	1					
Surface Own			Nature an	d V	Private (Nan olume of Releas lations or specific justific	se			-	nt Corpo	ration
Crude Oil		Ì	Released (bbls)		ations of specific Justin	1	me Reco			,	
Produced	Water	Volume F	Released (bbls)			Volu	me Reco	vered (	bbls)		
			centration of to the produced w				Yes		No	7	NA
Condensa	ite	Volume F	Released (bbls)		Unknown	Volu	me Reco	vered (	bbls)	Unkno	wn
☑ Natural G	ras	Volume F	Released (Mcf)		Unknown	Volu	me Reco	vered (	Mcf)	Unkno	wn
Other (de	scribe)	Volume/V	Weight Release	d (pr	ovide units)	Volu	me/Weig	ght Rele	eased (p	provide u	nits)
Cause of Relea	ıse:	1									

Seeping natural gas was discovered due to small pipeline failure (hole open under pressure). Initial field observations of the release suggested the volume of any associated hydrocarbon liquids was below NMOCD reporting thresholds. After further investigation and assessment of recent analytical data, the release has now been conservatively estimated to be equal to or somewhat greater than the minimum reportable quantity (minor release threshold).

Form C-141	State of New Mexico	Incident ID
Page 2	Oil Conservation Division	District RP
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		Application ID
Was this a major	If YES, for what reason(s) does the responsible party	consider this a major release?
release as defined by		·
10 15 20 7(A) NIMA C2		

19.15.29.7(A) NMAC?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)?

## **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

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

Release materials have been contained via the use of berms or dikes, absorbent pads, or other containmer

All free liquids and recoverable materials have been removed and managed appropriately.

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been suffessfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Kyle Norman	Title:	Regional Project Manager
Signature:	huk Norma	Date:	6/15/2020
email: knormar	n@tasman-geo.com	Telephone:	575-318-5017
OCD Only			
Received by:		Date:	
Received by:		Date:	

Received by OCD: 3/23/2021 1:26:59 PM Form C-141 State of New Mexico

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Oil Conservation Division

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District RP		
Facility ID		
Application ID		

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{\sim 197}{\text{bgs}}$ (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	☐ Yes ⊠ No
watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used	
by less than five households for domestic or stock watering purposes?	🗌 Yes 🖾 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh	Yes 🗌 No
water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
	🗌 Yes 🖂 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes 🗌 No

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

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

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

- Field data
- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 3/23	72021 1:26:59 PM State of New Mexico			Page 114 of 124
			Incident ID	NRM2016954249
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators public health or the envi failed to adequately inve addition, OCD acceptant and/or regulations. Printed Name: <u>Kyle</u> Signature: <u>Kyle</u>	1	tifications and perform co OCD does not relieve the eat to groundwater, surfa f responsibility for compl	orrective actions for rele e operator of liability sh- ce water, human health liance with any other fe Manager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:Cris	stina Eads	Date:03/2	23/2021	

Received by OCD: 3/23/2021 1:26:59 PM Form C-141 State of New Mexico

Oil Conservation Division

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# **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\boxtimes$  Estimated volume of material to be remediated

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Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	otifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Kyle Norman</u> Title	: <u>Regional Project Manager</u>
Signature: hype Norma	Date: 9/9/2020
email: <u>knorman@tasman-geo.com</u>	Telephone: <u>575-318-5017</u>
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

•

Appendix E

Soil Boring Log

Date Completed: Type of Drill: Air Bit Size: 6" Drilling Company: Depth	r Rotary : HCI Dri Well S	illing, Ind Sample Type	5. Field CL- 88 87 87 89 90 89 90 89 90	TOC Elev Staff Scie	the second s	14, T23	DTW: ~197 Ft. iffin Kyle Norman Description SRDAY CALICHE - TH SRDAY CALICHE - TH
ype of Drill:         Air           Bit Size:         6"           Drilling Company:         Depth           Company:         Company:           Depth         Company:           Surface         -           5         -           10         -           15         -           20         -           25         -           30         -           35         -           40         -           45         -           50         -           60         -           65         -           70         -	r Rotary : HCI Dri Well S	Sample	Field CL- 	TOC Elev Staff Scie Project I (ppm) 38 2.8,1 15.9 33.7 35	vation: entist: Be Manager: Laboratory	ecky G1	DTW: ~197 Ft. iffin Kyle Norman Description SRDAY CALICHE - TA SRDAY CALICHE - TA SRDAY CALICHE - TA SRDAY CALICHE - TA PECOS ALLUVAL - TA
Bit Size:       6"         Drilling Company:       Depth         Depth       Co         Surface       -         5       -         10       -         15       -         20       -         25       -         30       -         35       -         40       -         45       -         50       -         55       -         60       -         65       -         70       -	: HCI Dri Well S	Sample	Field CL- 	Project I PID (ppm) 38 2.8,1 1.5.9 3.3.7 3.5	Manager: Laboratory		Kyle Norman Description SANNY CALICHE - JA SANNY CALICHE - JA SANNY CALICHE - TA SANNY CALICHE - TA SANNY CALICHE - TA PECOX ALLUVAL - TA
Depth         Company:           Depth         Company:           (feet)         Company:           Surface         -           5         -           10         -           15         -           20         -           25         -           30         -           35         -           40         -           45         -           50         -           55         -           60         -           65         -           70         -	: HCI Dri Well S	Sample	Field CL- 	PID (ppm)  38 2.8,1 15.9 33.7 35	Laboratory		Description SRNNY CALICHE - TH SRNNY CALICHE - TH SRNNY CALICHE - TH SRNNY CALICHE - TH SRNNY CALICHE - TH PECOS ALLUVAL - TH
Depth (feet)         Co           Surface         -           5         -           10         -           15         -           20         -           25         -           30         -           35         -           40         -           45         -           50         -           60         -           65         -           70         -	Well S	Sample	Field CL- 	PID (ppm)  38 2.8,1 15.9 33.7 35	Laboratory		Description SRNNY CALICHE - TA SRNNY CALICHE - TA SRNNY CALICHE - TA SRNNY CALICHE - TA PECOS ALLUVAL - TA
(feet) Co	Contraction of the second s		 88 87 89 90 89	(ppm)  38 28,1 15.9 33.7 35			SANNY CALICHE - TA SANNY CALICHE - TA SANNY CALICHE - TA SANNY CALICHE - TA PECOS ALLUVAL - TA
5 10 15 20 25 30 35 40 45 50 55 60 65 70 			87 89 90 89	2.8.1 15.9 33.7 35			SANDY CALICHE - TH SANDY CALICHE - TA SANDY CALICHE - TA PECOS ALLUVAL - TA
10 15 20 25 30 35 40 45 50 55 60 65 70			87 89 90 89	2.8.1 15.9 33.7 35			SANDY CALICHE - TH SANDY CALICHE - TA SANDY CALICHE - TA PECOS ALLUVAL - TA
15 20 25 30 35 40 45 50 55 60 65 70 			89 90 89	15.9 33.7 35			SANDY CALICHE - TA SANDY CALICHE - TA PECOS ALLUVAL - TA
20 25 30 35 40 45 50 55 60 65 70			90 89	33.7			PECOS ALLUVAL - TA
25 30 35 40 45 50 55 60 65 70			89	35			PECOS ALLUVAL - TA
30 35 40 45 50 55 60 65 70							PECON ALLUVAL - TA SANDY CALICHE - TA
35 40 45 50 55 60 65 70			90	10			SANDY CALICHE - TA
40 45 50 55 60 65 70							
45 50 55 60 65 70				1			
50 55 60 65 70							
55 60 65 70							
60 65 70	F						
65 70	F						
70	F						
	F						
75	F						
80	-						
85	F						
90	F						
95	F						
100	F						
105	F						
110	F						
115							
120 -	-						

Boring/Well ID #: Soil Bore 2 SITE NAME NMR20169			E: 11117 Line Location 2 954249			CLIENT NAME: DCP Operating Company, LF	
Date Started: 1/12/2021				Location	n: UL "P", Sec.	14, T23	S, R26E
Date Completed: 1/12/2021				TOC Ele			DTW: ~197 Ft.
Type of Drill:	Air Rotary			Staff Sci	entist: Beck	y Griff	ìn
	6"			Project	Manager:		Kyle Norman
Drilling Compar		rilling, Ind	c.				
Depth	Well	Sample	Field CL-	PID	Laboratory	USCS	Description
(feet)	Completion	Түре		(ppm)	Sample		
Surface			88	3.7			TOPSOIL SANDY CLA
							BROON
5			90	3.6			JANDY CALICHE - TA
10 -			89	1.8			KANDU CALICHE -T
							sassy charge
15			89	2.7			SANDY CALICHE / S.
20 -			89	3.1			KANDY CALICHE / PI
20			07	3.1			ALLAVAL - TAN
25			-	-			
30 -			-	-			
30			_				
35							
40							
45 -							
		-					
50							
55 -							
_							
60							
65							
70							
75							
···							
80							
85							
90 -					-		
95							
100							
105							
110							
110							
115							
	F						

			SITE NAM	E: 11117 Line Location 2			CLIENT NAME: DCP Operating Company
Date Started:		Location	Location: UL "P", Sec. 14, T23S, R26E				
Date Complete		TOC Ele			DTW: ~197 Ft.		
Type of Drill:				Staff Sci	entist: Bec	ky Grif	ffin
Bit Size:	6"			Project	Manager:		Kyle Norman
Drilling Compa	ny: HCI D	rilling, In	с.	-			1
Depth (feet)	Well Completion	Sample Type	Field CL-	PID (ppm)	Laboratory Sample	USCS	Description
	completion	түре	And the second	1 (ppin/	Jampie		
Surface			87	1.9			TOPSOIL SANDY CLA
5			89	3.1			VERY FINE CALICHE
_				-2.1			TA
10			90	1.6			CALICHE / PECOS ALL
15 -	-		88	1.0			CALICHE / PELOS ALLU
							TA
20			89	1.7			CALICHE / PECOS ALLU
25	-						TA
	1						
30							
35	1						
_	1						
40	-						
45							
_	]						
50							
55							
	]						
60	-						
65							
70 -							
70							
75	1						
	-						
80							
85	1						
							1
90							
95							
100							
100							
105							
				1			
110							
115							
						1	

Boring/Well ID #: Soil Bore 4 SITE NAME NMR20169			E: 11117 Line Location 2 954249			CLIENT NAME: DCP Operating Company, LP				
Date Started: 1/12/2021			Location: UL "P", Sec. 14, T23S, R26E							
Date Completed: 1/12/2021				TOC Elev			DTW: ~197 Ft.			
				Staff Sci		cky Gr	iffin			
	6"				Staff Scientist: Becky Griffin Project Manager: Kyle Norman					
Drilling Compar	ny: HCI D	Drilling, In	с.	1	inen o Berr					
Depth (feet)	Well Completion	Sample Type	Field CL-	PID (ppm)	Laboratory Sample	USCS	Description			
Surface			86	2.2			TOPSOIL SANDY CLAY			
5			88	2.1			VERY FINE CALICHE			
							O TRN			
10			84	2.7			VERY FINE CALICHE			
15			84	1.9			VERY FINE CALICHE			
20			87	1.6			CALICHE/PECOS ALLU			
25 -							LT REODISH BRD			
30										
35										
40		-								
45		-								
50										
55										
60										
65 -										
70										
75										
80										
85										
90										
95										
100										
105										
110										
115										

				E NAME: 11117 Line Location 2 //R2016954249			CLIENT NAME: DCP Operating Company
Date Started:	1/13/2021			Location	: UL "P", Sec.	14. T23	S. R26E
Date Completed: 1/13/2021				TOC Elev			DTW: ~197 Ft.
Type of Drill:					entist: Beck	v Griffi	
	6"				Manager:	y drinn	Kyle Norman
Drilling Compar		rilling, Ind	r	FIDJett	vialiager.		Ryle Norman
Depth	Well	Sample		PID	Laboratory		
(feet)	Completion		Field CL-	(ppm)	Sample	USCS	Description
Surface			20				
Surface			89	2.1			TOPYOIL YANDY CL BROWNU
5			85	1.6			SANDY CALICHE -
			03	1.0			SABOL CALLAR
10			86	2			SANDY CALICHE
15 -				-			SMALL GRAVEZ - T
15		-	83	3.6			SANDY CALICHE / YA
20 -			90	1.3			PEROS ALLUVAL -T
		-		1			PEROX ALLUVAL -T
25							
30				-			
30							
35		-					
_							
40							
45							
40							
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60 -							
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Appendix F

C-141 Closure Form

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# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following a	items must be included in the closure report.
$\square$ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Regional Project Manager
Signature: _/\gette // br/man	Date: <u>3/8/2021</u>
email: <u>knorman@tasman-geo.com</u>	Telephone: <u>575-318-5017</u>
OCD Only	
Received by: Cristina Eads	Date:03/23/2021
remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and Closure Approved by:	Date:07/20/2021
Printed Name: Cristina Eads	Title: Environmental Specialist

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
370 17th Street, Suite 2500	Action Number:
Denver, CO 80202	21708
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
ceads	None	7/20/2021

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Action 21708