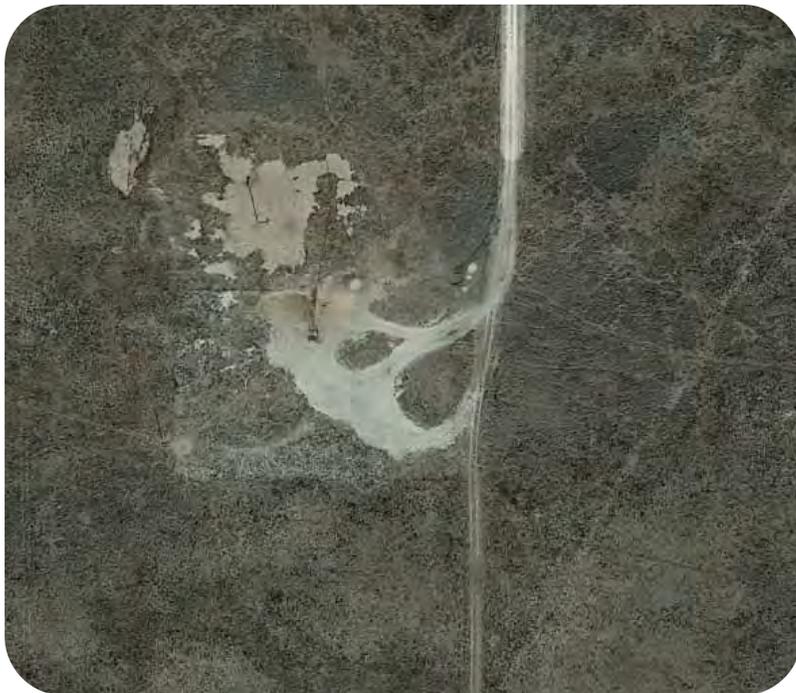


CHALUPA #4 SWD – SOUTH RELEASE AREA

Remediation Summary and Closure Request

NMOCD Incident No. nOY1706630747
UL "M", Sec. 13, T14S, R33E
33.0982437°, -103.5753937°
Lea County, New Mexico

June 2, 2023



PREPARED ON BEHALF OF

Foundation Energy
Management
1801 Broadway
Suite 1500
Denver, CO 80202



PREPARED BY

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



June 2, 2023

Foundation Energy Management, LLC
1801 Broadway, Suite 1500
Denver, Colorado 80202

Attn: Mr. James Smith
Email: jsmith@foundationenergy.com

Re: Remediation Summary and Closure Request
Chalupa SWD #4 – South Release Area
UL "M", Section 13, Township 14 South, Range 33 East
Lea County, New Mexico
NMOCD Incident No. nOY1706630747
Tasman Project No. 4952

Dear Mr. Smith,

Tasman, Inc. (Tasman) is pleased to submit this Remediation Summary and Closure Report for the above referenced site. Remediation activities were executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations and the Remediation Action Plan approved on February 14, 2023.

Tasman appreciates the opportunity to provide environmental services to Foundation Energy Management. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Sincerely,
Tasman, Inc.

Brett Dennis
Senior Environmental Scientist
bdennis@tasman-geo.com

Kyle Norman
Regional Project Manager
knorman@tasman-geo.com

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1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Summary and Closure Request for the Chalupa #4 SWD – South Release Area (Site) on behalf of Foundation Energy Management, LLC (FEM), documenting the results of field activities conducted in response to a release of natural gas and natural gas condensate to environmental media.

1.1 Site Description

The Site is located in Lea County, New Mexico in Unit Letter "M", Township 14 South, Range 33 East and the approximate coordinates are 33.0982437, -103.5753937 (Figure 1). The Site is located approximately 0.3 miles south of State Highway 108 (Anderson Road) in a rural area on New Mexico State Trust Lands administered by the New Mexico State Land Office (NMSLO) and leased to Norman and Elwanda Hahn Ranches, LTD for agriculture use. The nearest town of Lovington, New Mexico is located approximately 16 miles southeast of the Site.

1.2 Site History

On February 23, 2017, FEM discovered a release of produced water at the Site from a clamp securing a hose to the Chalupa #4 SWD wellhead that failed, releasing saltwater on the ground surface. The release occurred approximately 2,500-feet south of the tank battery location. Approximately 125 bbls of saltwater were released to the ground surface and approximately 25 bbls were recovered. On March 6, 2017, FEM submitted a Release Notification Corrective Action Form C-141 to the NMOCD for the release and the NMOCD established a maximum permissible chloride level in soil of 600 milligrams per kilogram (mg/kg). A copy of form C-141 is attached as Appendix A. On behalf of FEM, Enviro Clean Cardinal, LLC (ECC) performed initial site investigation activities which included a walkover survey using an EM-38 electrical conductivity (EC) meter and soil boring activities to delineate the horizontal and vertical extents of chloride impacts. As presented in the Release Characterization Report that was submitted to the NMOCD on February 16, 2018, the lateral extent of chloride impacts at the Site covered approximately 0.64 acres and extended vertically to between 34 and 59 feet below ground surface (bgs).

Subsequent to the initial response and investigation activities described above, FEM retained Tasman to conduct additional Site assessment, remediation, and reclamation activities at the Site within the root zone of the SRA between the surface and 4 feet bgs as described in the Remediation Work Plan which was approved by the NMOCD on June 6, 2018, and by the NMSLO on June 8, 2018.



Between May 8 and 19, 2019, approximately 4,091 cubic yards (yd³) of chloride impacted soil were transported under waste manifest procedures to an approved off-Site disposal facility (Gandy Marley Inc.) located near Caprock, New Mexico. On May 20, 2019, prior to backfilling activities, a 20-millimeter-thick linear low-density polyethylene (LLDPE) sealed liner manufactured by Raven Industries, Inc. was installed at the base of the excavation area. On May 22-23, 2019, approximately 3,422 yd³ of clean sand were backfilled in the excavation to a depth of 18 inches bgs and approximately 1,315 yd³ of clean topsoil was backfilled and compacted within the disturbed area to match the previous grade. Imported material, including sand and topsoil, was sourced from Gandy Marley, Inc. in Lea County, New Mexico.

On June 6, 2019, the NMSLO approved an amended seed mixture to be used at the Site and on September 11, 2019, prior to heavy precipitation events that were forecasted for the area, re-seeding activities were performed at the Site using a tractor with a drop seed tiller. During a Site visit on October 8, 2019, to observe vegetation re-growth at the Site, Tasman personnel observed sprouted seedlings throughout the disturbed area indicating that the re-seeding effort has successfully propagated vegetation at the site.

On December 23, 2019, FEM submitted a Remediation and Reclamation Summary Report, dated October 29, 2019, to the NMOCD summarizing remedial efforts at the Site.

On October 19, 2022, the NMOCD provided email notification to FEM indicating that the submitted Report was rejected and additional confirmation sampling was required for Site closure to be granted.

On November 17, 2022, Tasman mobilized to the Site to collect confirmation soil samples in accordance with NMOCD e-mail correspondence, dated October 31, 2022. Twenty-two composite wall samples were collected from within the former excavation area. Soil samples were collected across a total area of 200 square feet. Additionally, four discrete soil samples were collected from the backfill material of the former excavation at a depth of 3.5 feet bgs. Samples were collected above the liner to prevent damage to the existing liner.

On December 30, 2022, Tasman mobilized to the Site to further delineate remaining chlorides impacts in the area of exceedances observed during the November 2022 confirmation sampling event. A total of seven soil borings (HA-1 through HA-7) were advanced using a hand auger to depths between one and three feet bgs or geologic refusal.

On February 13, 2023, Tasman submitted a Remediation Action Plan (RAP) for the site, on behalf of FEM, to the NMOCD.



On February 13, 2023, NMOCD approved the RAP with the condition that confirmation soil samples would represent 400 square feet (ft²) and the areas of Backfill-1, HA-5 through HA-7 would need to be remediated and reclaimed per 19.15.29 NMAC.

On March 17, 2023, during delineation activities of areas surrounding hand auger soil borings HA-1 and HA-2, debris were discovered in delineation trenches (verticals) consistent with a reserve drilling pit. Historical aerial photographs of the site show that the reserve pit area has had little to no vegetative growth since at least 1996. The NMOCD imaging site indicates that the Chalupa #4 well was installed in 1984 by Yates Petroleum Corporation as a production well and converted to SWD in 1992. FEM acquired the asset in August 2015.

On March 27, 2023, an Addendum to the RAP was submitted to the NMOCD with proposed actions regarding the reserve pit (referred to in this report as Area 2).

On April 4, 2023, the NMOCD approved the RAP Addendum with the following conditions via email.

- The excavation must be advanced to a total depth of 4 feet. This is necessary to comply with 19.15.29 NMAC.
- Base and wall samples need to be collected and must be representative of no more than 400 square feet. Base samples are necessary to provide documentation of the contamination that is left in place.
- The variance for a 20-millimeter thick LLDPE sealed liner is approved at 4 feet.
- Full horizontal delineation will need to be achieved. Horizontal delineation can be demonstrated by the confirmation wall samples.
- TPH and BTEX will need to be ruled out as contaminants of concern.

2.0 REMEDIATION ACTION LEVELS

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and proximity to sensitive receptors as established in NMAC 19.15.29. Based on site characteristics described in previous reports, the NMOCD Action Levels for the site are as follows:



Constituent	Remediation Action Level
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	N/A
BTEX	50 mg/kg
Benzene	10 mg/kg

TPH – total petroleum hydrocarbons

DRO – diesel range organics

BTEX – benzene, toluene, ethylbenzene, total xylenes

GRO – gasoline range organics

MRO – motor/lube oil range organics

mg/kg – milligrams per kilogram

2.1 Reclamation Levels

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

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

3.0 SOIL SAMPLING PROCEDURES

3.1 Soil Sampling Procedures for Laboratory Analysis

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

3.2 Soil Analytical Methods

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

- Chloride – EPA Method SM4500.



4.0 SUMMARY OF REMEDIAL ACTIVITIES

4.1 Remedial Activities

From March 16 to April 12, 2023, Tasman utilized heavy equipment to excavate impacted soil from within the delineated areas, identified as Areas 1 and 2 (Figure 2). Excavated material was stockpiled on-site atop a polyethylene liner pending transportation to an NMOCD approved disposal facility.

The approximate size and depth for each of the remedial excavations are as follows:

- Area 1 – 3 feet below ground surface (ft bgs) – 21,318 ft²
- Area 2 – 4 ft bgs – 17,555 ft²

A total of 4,164 cubic yards (yds³) of excavated material was exported to Gandy Marley Landfill. Copies of solid manifests are provided in Appendix B and a photographic log is provided in Appendix C.

4.2 Confirmation Data Evaluation

On April 13, 2023, Tasman mobilized to the site to collect five-point composite confirmation soil samples from the base and sidewalls of the remedial excavations representing approximately 400 ft². Confirmation sidewall samples were collected at approximately half the depth of each excavation.

Area 1

Ten confirmation soil samples were collected from the base and one confirmation soil sample were collected from the north side wall of the Area 1 excavation. Chloride concentrations were detected above the laboratory reported detection limit (RDL) in each of the confirmation soil samples, but below NMOCD Action Levels. Concentrations of chlorides ranged from 80.0 milligrams per kilogram (mg/kg) in soil sample A1-FL-6 to 512 mg/kg in soil sample A1-N-Wall.

Area 2

Thirty-six confirmation soil samples were collected from the base and five confirmation soil samples were collected from the side walls of the Area 2 excavation. Chloride concentrations of confirmation soil samples collected from the walls of the excavation were below the NMOCD Action Level, demonstrating that the area has been laterally delineated.

Floor samples collected from the base of the excavation are intended to document the chemicals



of concern to left in place after liner installation at 4 ft bgs. Confirmation samples A2 FL-2, A2 FL-28, and A2 FL-31 exhibited concentrations of TPH above the laboratory RDL, but below NMOCD Action Levels. Concentrations of chlorides in confirmation soil samples were each above the NMOCD Action Level except for soil sample A2 FL-8. Chloride concentrations in confirmation floor samples ranged from 128 mg/kg in soil sample A2 FL-7 to 8,800 mg/kg in soil sample A2 FL-17.

A summary of laboratory analytical results is provided as Table 1 and laboratory analytical reports are attached as Appendix D.

4.3 Liner Installation

On March 29, 2023, Tasman mobilized to the site to install a sealed 20-millimeter liner at Area 2 per the RAP Addendum approved on April 4, 2023. Prior to installation, areas requiring a liner were padded with approximately six inches of backfill material to prevent damage to each liner.

No damage was sustained to the liner previously at Area 1 thus no liner installation took place after remedial activities were completed.

5.0 Restoration and Reclamation

Areas affected by the release and associated remediation activities were restored to the condition which existed prior to the release to the maximum extent possible. Excavated areas were backfilled with non-impacted “like” material and contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Tasman collected and submitted a soil sample for laboratory analysis of the imported material (Table 1). On May 16, 2023, the site was seeded and tilled with a State Land Office (surface owner) approved blend of native vegetation mix.

6.0 Site Closure Request

Based on laboratory analytical results from soil samples collected during the confirmation sampling events, impacted soil within the release area has been remediated below the applicable NMOCD Action Levels in accordance with NMAC 19.15.29. Areas exceeding NMOCD action levels have been addressed with an impermeable barrier to prevent migration of chemicals of concern to groundwater. As such, Tasman, on behalf of DCP, respectfully requests that the site be granted closure (Appendix E).

FIGURES

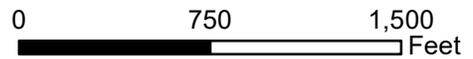
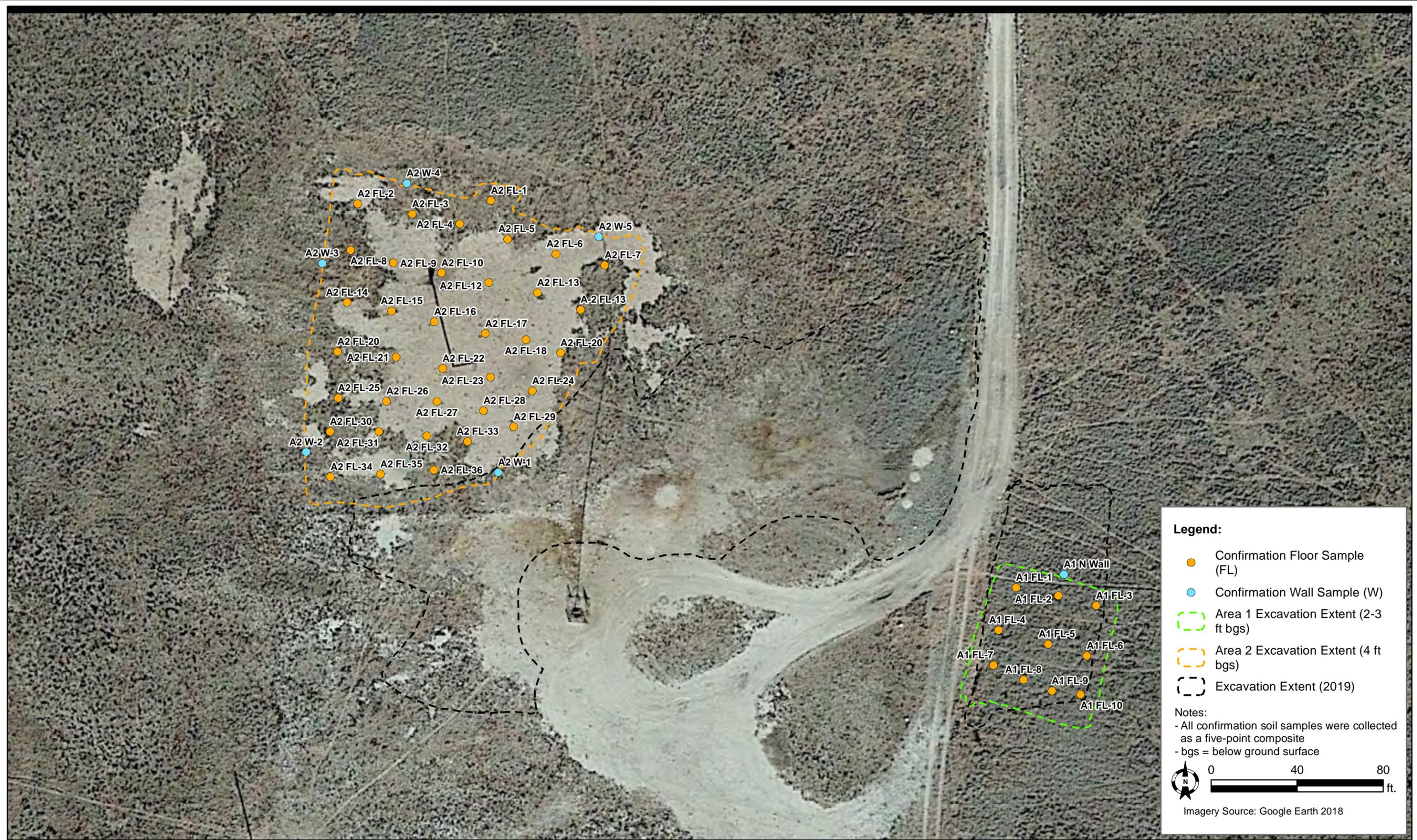


Figure 1

Site Location Map
 Chalupa #4 SWD - South Release Area
 UL "M", S13, T14S, R33E
 Lea County, New Mexico



Drawn By: LR
 Date: 1/26/2023



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

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

Foundation Energy Management
Chalupa #4 SWD - South Release Area
UL "M", Section 13, Township 14 South, Range 33 East
Lea County, New Mexico

Excavation Overview Map

Figure 2

TABLE

TABLE 1
SOIL ANALYTICAL SUMMARY
Foundation Energy Management, LLC
Chalupa #4 SWD - South Release Area

Sample ID	Sample Depth (bgs)	Sample Date	Soil Status	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
						GRO	DRO	MRO	TOTAL	
Area 1										
A1 N-Wall	----	4/13/2023	In-Situ	----	----	----	----	----	----	512
A1 FL-1	3'	4/13/2023	In-Situ	----	----	----	----	----	----	320
A1 FL-2	3'	4/13/2023	In-Situ	----	----	----	----	----	----	480
A1 FL-3	3'	4/13/2023	In-Situ	----	----	----	----	----	----	240
A1 FL-4	3'	4/13/2023	In-Situ	----	----	----	----	----	----	160
A1 FL-5	3'	4/13/2023	In-Situ	----	----	----	----	----	----	240
A1 FL-6	3'	4/13/2023	In-Situ	----	----	----	----	----	----	80.0
A1 FL-7	3'	4/13/2023	In-Situ	----	----	----	----	----	----	240
A1 FL-8	3'	4/13/2023	In-Situ	----	----	----	----	----	----	160
A1 FL-9	3'	4/13/2023	In-Situ	----	----	----	----	----	----	288
A1 FL-10	3'	4/13/2023	In-Situ	----	----	----	----	----	----	272
Area 2										
A2 W-1	----	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	560
A2 W-2	----	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	512
A2 W-3	----	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	240
A2 W-4	----	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	384
A2 W-5	----	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	480
A2 FL-1	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	579
A2 FL-2	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	11.0	12.2	23.2	832
A2 FL-3	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,280
A2 FL-4	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,960
A2 FL-5	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,470
A2 FL-6	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,500
A2 FL-7	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	624
A2 FL-8	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	128
A2 FL-9	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,360
A2 FL-10	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	4,120
A2 FL-11	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
A2 FL-12	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	5,280
A2 FL-13	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,780
A2 FL-14	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	640
A2 FL-15	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	3,280
A2 FL-16	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	5,360
A2 FL-17	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	8,800
A2 FL-18	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	4,720
A2 FL-19	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	848
A2 FL-20	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	688
A2 FL-21	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,880
A2 FL-22	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	7,840
A2 FL-23	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	7,200
A2 FL-24	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
A2 FL-25	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	3,120
A2 FL-26	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	7,860
A2 FL-27	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	8,530
A2 FL-28	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	12.0	11.4	23.4	6,000
A2 FL-29	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	3,080
A2 FL-30	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,180
A2 FL-31	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	11.5	11.5	1,181
A2 FL-32	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	5,040
A2 FL-33	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	3,040
A2 FL-34	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	688
A2 FL-35	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,200
A2 FL-36	4'	4/13/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,000
Imported Soil										
Imported Soil	----	3/15/2023	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
NMOCAD Action Levels⁴				10	50	N/A			100	600

Notes:

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
 - 2. TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
 - 3. Chloride - Analyzed by EPA method SM4500
 - 4. New Mexico Administrative Code (NMAC) 19.15.29.13(D) - Restoration, Reclamation, and Re-vegetation (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).
 - 5. New Mexico Oil Conservation Division (NMOCAD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample
Bold values denote concentrations above laboratory RDL
Red values denote concentrations above NMOCAD Action Levels
- BGS = Below ground surface
 - GRO = Gasoline range organics
 - DRO = Diesel range organics
 - MRO = Motor/lube oil range organics
 - PID = Photoionization detector
 - = Sample was not analyzed for this analyte
 - <RDL = The analyte was not detected above the laboratory recorded detection limit (RDL)
 - N/A = Not applicable
 - Ft. = Feet

APPENDIX A – INITIAL FORM C-141 AND NMOCD NOTIFICATIONS

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Foundation Energy Management, LLC	Contact Rachel Grant
Address 16000 Dallas Parkway, Suite 875	Telephone No. 918-526-5592
Facility Name Chalupa SWD	Facility Type Salt water disposal well
Surface Owner	Mineral Owner
API No. 30-025-29184	

LOCATION OF RELEASE

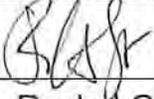
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	13	14S	33E	330	South	330	West	Lea

Latitude 33.0982437 Longitude -103.5753937

NATURE OF RELEASE

Type of Release Saltwater	Volume of Release 125 bbls	Volume Recovered 25 bbls
Source of Release Injection hose came loose because of corroded clamps	Date and Hour of Occurrence	Date and Hour of Discovery 2/23/2017, 12pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu	
By Whom? Rachel Grant	Date and Hour 2/24/2017, 9am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* Vacuum truck was called out immediately to vacuum free-standing fluid on location. Roustabout service was called to replace the flexible hose with a new one and use hammer unions to connect the hose to the injection line to prevent future spills.		
Describe Area Affected and Cleanup Action Taken.* Working procedure for remediation.		

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Rachel Grant	Approved by Environmental Specialist:	
Title: HSE/Regulatory Manager	Approval Date:	Expiration Date:
E-mail Address: regulatory@foundationenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/6/17	Phone: 918-526-5592	

* Attach Additional Sheets If Necessary

Incident ID	nOY170663 Page 17 of 97
District RP	
Facility ID	
Application ID	

Oil Conservation Division

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?	<u>73</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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.

Incident ID	nOY170663 Page 18 of 97
District RP	
Facility ID	
Application ID	

Oil Conservation Division

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: James Smith _____ Title: HSE/Regulatory Supervisor _____

Signature:  _____ Date: 2/13/23 _____

email: JSmith@foundationenergy.com _____ Telephone: 972-707-2595 _____

OCD Only

Received by: _____ Date: _____

Incident ID	NOY17066 Page 19 of 97
District RP	
Facility ID	
Application ID	

Remediation Plan

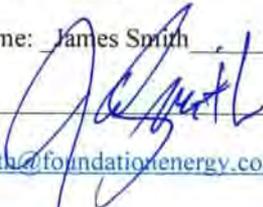
Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: James Smith Title: HSE-Regulatory Supervisor
 Signature:  Date: 2/13/2023
 email: jsmith@foundationenergy.com Telephone: 972-707-2595

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 2/13/2023

From: [Hall, Brittany, EMNRD](#)
To: [Kyle Norman](#); [Bratcher, Michael, EMNRD](#)
Cc: [James Smith](#); [Lance Bentley](#); [Brett Dennis](#)
Subject: RE: [EXTERNAL] nOY1706630747 - Chalupa #4 SWD - South Release Area
Date: Thursday, March 30, 2023 9:41:01 AM
Attachments: [image001.png](#)

Good morning Kyle,

This workplan is approved with the following conditions of approval:

- The excavation must be advanced to a total depth of 4 feet. This is necessary to comply with 19.15.29 NMAC.
- Base and wall samples need to be collected and must be representative of no more than 400 square feet. Base samples are necessary to provide documentation of the contamination that is left in place.
- The variance for a 20-millimeter thick LLDPE sealed liner is approved at 4 feet.
- A sample will need to be sent to the lab for V-1 to confirm the chloride concentration at this location.
- Full horizontal delineation will need to be achieved. Horizontal delineation can be demonstrated by the confirmation wall samples.
- TPH and BTEX will need to be ruled out as contaminant of concern. This can be achieved by:
 1. Collecting samples at various locations and depths from the proposed excavation area prior to starting the remediation excavation, or
 2. Analyzing the confirmation samples for TPH and BTEX.

Please include a copy of this email, a copy of the *Remediation Action Plan Addendum*, and all other notifications in the remedial and/or closure reports to ensure everything is documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrn.nm.gov
<http://www.emnrn.nm.gov/oecd/>

From: Kyle Norman <knorman@tasman-geo.com>
Sent: Monday, March 27, 2023 2:32 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrn.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrn.nm.gov>
Cc: James Smith <JSmith@foundationenergy.com>; Lance Bentley <LBentley@foundationenergy.com>; Brett Dennis <bdennis@tasman-geo.com>
Subject: RE: [EXTERNAL] nOY1706630747 - Chalupa #4 SWD - South Release Area

Good afternoon, Ms. Hall, and Mr. Bratcher,

Please see the attached Remediation Action Plan Addendum for the Chalupa South_nOY1706630747. This addresses the reserve pit area on the Chalupa South.

From: [Hall, Brittany, EMNRD](#)
To: [James Smith](#); [Bratcher, Michael, EMNRD](#)
Cc: [Kyle Norman](#); [Brett Dennis](#)
Subject: RE: [EXTERNAL] Chalupa South (nOY1706631442) confirmation sampling notice
Date: Tuesday, April 11, 2023 7:00:59 AM

Thank you, James.

Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd/>

From: James Smith <jsmith@foundationenergy.com>
Sent: Tuesday, April 11, 2023 6:09 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Kyle Norman <knorman@tasman-geo.com>; Brett Dennis <bdennis@tasman-geo.com>
Subject: [EXTERNAL] Chalupa South (nOY1706631442) confirmation sampling notice

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

Good morning Brittany.

I wanted to let you all know that Tasman plans on collecting confirmation samples at the Chalupa South (nOY1706631442) spill site this coming Thursday, April 13th at 0800.

Thank you.

James Smith | HSE/Regulatory Supervisor
5057 Keller Springs Rd., Ste 650
Addison, TX 75001
P: 972.707.2595
C: 918.346.7350

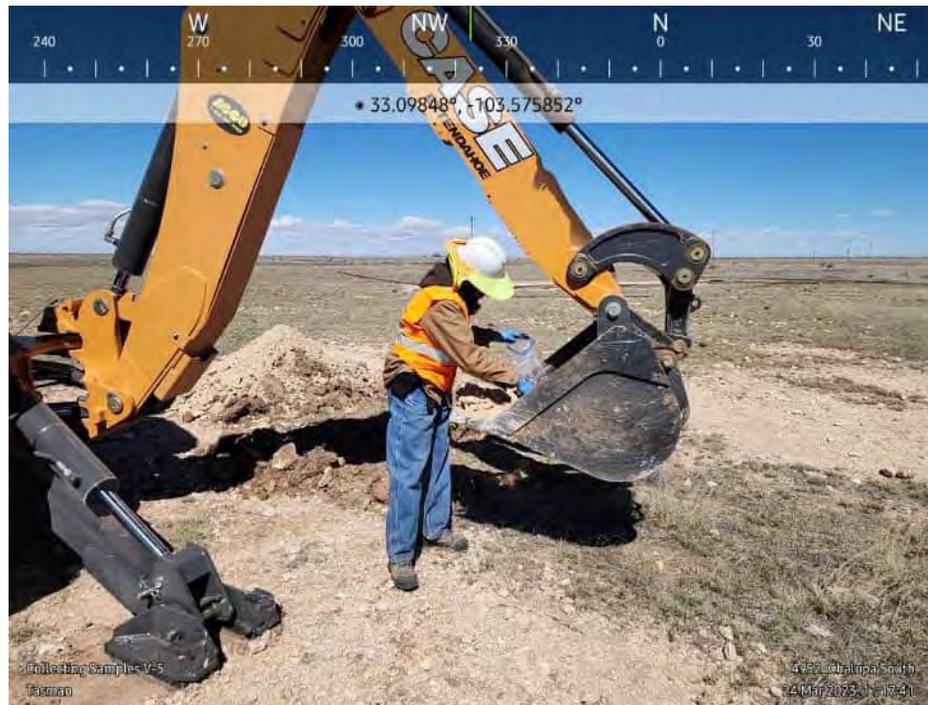
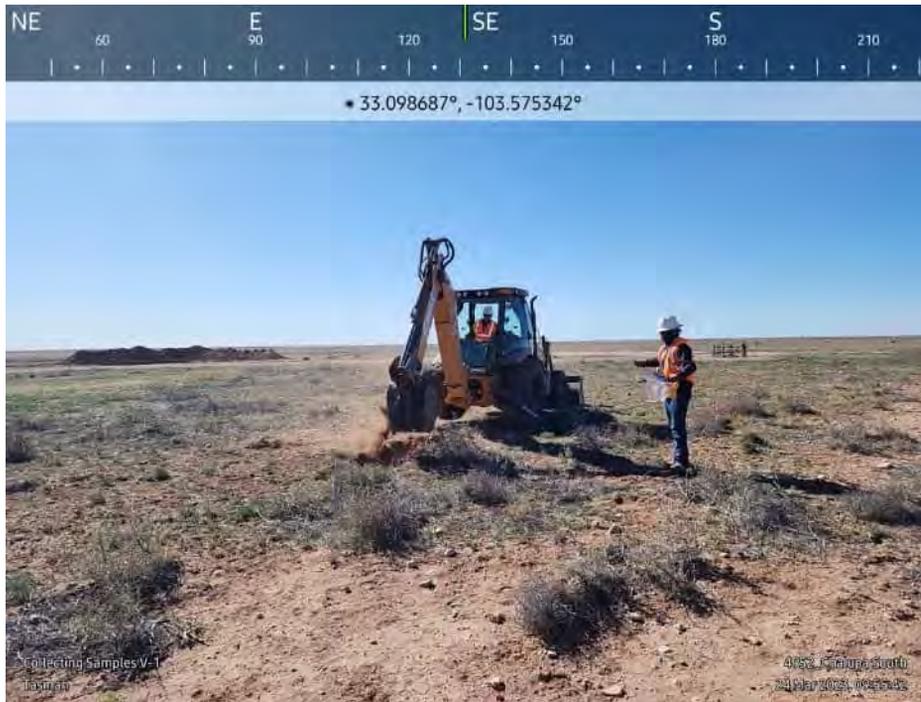


APPENDIX B – MANIFESTS

APPENDIX C – PHOTOGRAPHIC LOG

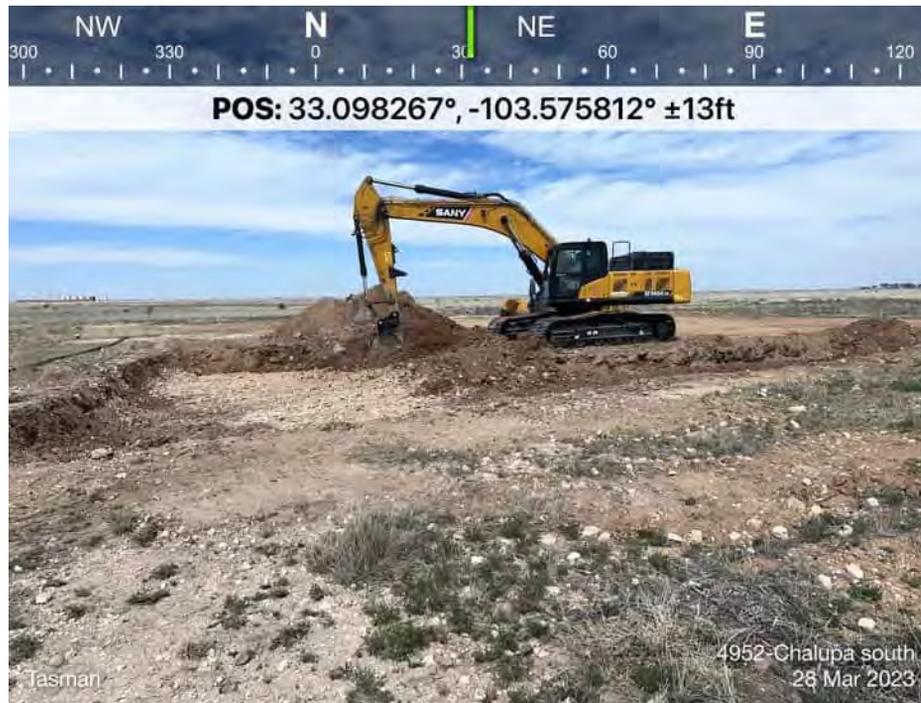
Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



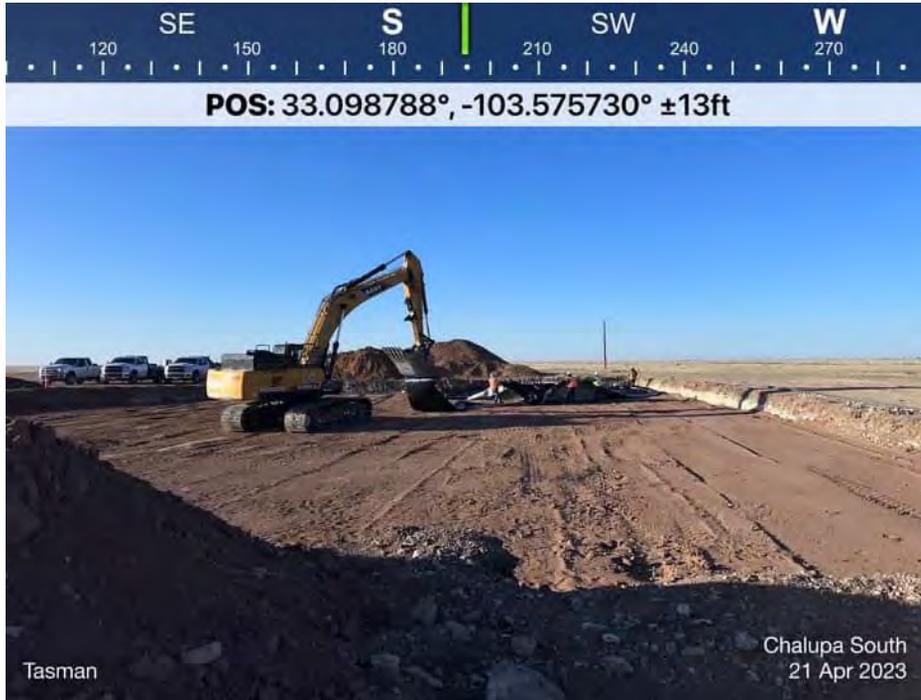
Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



Foundation Energy Management

Chalupa #4 SWD – South Release Area



APPENDIX D – CERTIFIED LABORATORY ANALYTICAL REPORTS



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

April 17, 2023

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

RE: 4952_CHALUPA SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A1 N - WALL (H231809-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL-1 @ 3' (H231809-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 2 @ 3' (H231809-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 3 @ 3' (H231809-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/17/2023	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/17/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A1 - FL- 4 @ 3' (H231809-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 5 @ 3' (H231809-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 6 @ 3' (H231809-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 7 @ 3' (H231809-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 8 @ 3' (H231809-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/17/2023	ND	432	108	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A1 - FL- 9 @ 3' (H231809-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/17/2023	ND	432	108	400	0.00	

Sample ID: A1 - FL- 10 (H231809-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/17/2023	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/17/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 W-1 (H231809-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/17/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 W-2 (H231809-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/17/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A2 W-3 (H231809-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A2 W-4 (H231809-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A2 W-5 (H231809-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences		BILL TO		ANALYSIS REQUEST															
Project Manager: Kyle Norman		P.O. #:		Chlorides	TPH 8015 M	BTEX	TPH TX1005	Complete Cations/Anions	TDS	HOLD	24 Hour RUSH								
Address: 2620 W. Marland Blvd.		Company: Tasman Geo																	
City: Hobbs State: NM Zip: 88240		Attn: Kyle Norman																	
Phone #: 575-318-5017 Fax #:		Address: 2620 W. Marland																	
Project #:		City: Hobbs																	
Project Name: 4952 Chalupa South		State: NM Zip: 88240																	
Project Location:		Phone #: 575-318-5017																	
Sampler Name: Chris Flores		Fax #:																	
FOR LAB USE ONLY																			

Lab I.D.	Sample I.D.	(GIRAB OR C)JOMP	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			
H231809															
11	A1 FL-10	C	1			X				X			4.13.23	1140	X
12	A2 W-1	C	1			X				X				1230	X X X
13	A2 W-2	C	1			X				X				1240	X X X
14	A2 W-3	C	1			X				X				1250	X X X
15	A2 W-4	C	1			X				X				1330	X X X
16	A2 W-5	C	1			X				X				1340	X X X

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Relinquished By:	Date: 4.14.23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1130		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; cflores@tasman-geo.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) YO.	
	2.3c / 1.7c	<input type="checkbox"/> No <input type="checkbox"/> No		

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



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

April 21, 2023

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

RE: 4952_CHALUPA SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-1 @ 4' (H231811-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	579	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-2 @ 4' (H231811-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	11.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	12.2	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-3 @ 4' (H231811-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-4 @ 4' (H231811-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-5 @ 4' (H231811-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-6 @ 4' (H231811-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-7 @ 4' (H231811-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-8 @ 4' (H231811-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-9 @ 4' (H231811-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	183	91.4	200	9.21	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	203	101	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-10 @ 4' (H231811-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 50.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.2 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-11 @ 4' (H231811-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 65.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.6 % 49.1-148

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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-12 @ 4' (H231811-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 60.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-13 @ 4' (H231811-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-14 @ 4' (H231811-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 54.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-15 @ 4' (H231811-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-16 @ 4' (H231811-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 49.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-17 @ 4' (H231811-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.93	96.4	2.00	5.93	
Toluene*	<0.050	0.050	04/19/2023	ND	2.01	101	2.00	4.84	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.13	102	6.00	4.89	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-18 @ 4' (H231811-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	QR-03
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	QR-03
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-19 @ 4' (H231811-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/19/2023	ND	400	100	400	3.92	

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	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-20 @ 4' (H231811-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-21 @ 4' (H231811-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 56.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-22 @ 4' (H231811-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 55.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-23 @ 4' (H231811-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-24 @ 4' (H231811-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-25 @ 4' (H231811-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-26 @ 4' (H231811-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-27 @ 4' (H231811-27)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-28 @ 4' (H231811-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	12.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	11.4	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-29 @ 4' (H231811-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	186	93.2	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	171	85.4	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-30 @ 4' (H231811-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-31 @ 4' (H231811-31)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	11.5	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/21/2023
 Project Name: 4952_CHALUPA SOUTH
 Project Number: 4952
 Project Location: FOUNDATION ENERGY

Sampling Date: 04/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A 2 FL-32 @ 4' (H231811-32)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-33 @ 4' (H231811-33)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-34 @ 4' (H231811-34)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-35 @ 4' (H231811-35)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	4952_CHALUPA SOUTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: A 2 FL-36 @ 4' (H231811-36)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	2.03	101	2.00	7.37	
Toluene*	<0.050	0.050	04/19/2023	ND	2.13	106	2.00	7.23	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.09	105	2.00	7.68	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.49	108	6.00	8.22	
Total BTEX	<0.300	0.300	04/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	04/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences		BILL TO		ANALYSIS REQUEST																						
Project Manager: Kyle Norman		P.O. #:		Chlorides TPH 8015 M BTEX TPH TX1005 Complete Cations/Anions TDS HOLD 24 Hour RUSH																						
Address: 2620 W. Marland Blvd.		Company: Tasman Geo																								
City: Hobbs State: NM Zip: 88240		Attn: Kyle Norman																								
Phone #: 575-318-5017 Fax #:		Address: 2620 W. Marland																								
Project #:		City: Hobbs																								
Project Name: 4952 Chalupa South		State: NM Zip: 88240																								
Project Location:		Phone #: 575-318-5017																								
Sampler Name: Chris Flores		Fax #:																								
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	MATRIX				PRESERV.			SAMPLING														
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
	H231811																									
	11	A2 FL-11 @ 4'	C	1			X				X	4.13.23	1450	X	X	X										
	12	A2 FL-12 @ 4'	C	1			X				X		1455	X	X	X										
	13	A2 FL-13 @ 4'	C	1			X				X		1500	X	X	X										
	14	A2 FL-14 @ 4'	C	1			X				X		1505	X	X	X										
	15	A2 FL-15 @ 4'	C	1			X				X		1510	X	X	X										
	16	A2 FL-16 @ 4'	C	1			X				X		1515	X	X	X										
	17	A2 FL-17 @ 4'	C	1			X				X		1520	X	X	X										
	18	A2 FL-18 @ 4'	C	1			X				X		1525	X	X	X										
	19	A2 FL-19 @ 4'	C	1			X				X		1530	X	X	X										
	20	A2 FL-20 @ 4'	C	1			X				X		1535	X	X	X										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether stated in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, 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 services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4.14.23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
	Time: 1130		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:	
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:		email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; cflores@tasman-geo.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) TO		
	5.3c / 4.7c				

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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences				BILL TO				ANALYSIS REQUEST													
Project Manager: Kyle Norman				P.O. #:				Chlorides TPH 8015 M BTEX TPH TX1005 Complete Cations/Anions TDS HOLD 24 Hour RUSH													
Address: 2620 W. Marland Blvd.				Company: Tasman Geo																	
City: Hobbs		State: NM Zip: 88240		Attn: Kyle Norman																	
Phone #: 575-318-5017		Fax #:		Address: 2620 W. Marland																	
Project #:		Project Owner: Foundation		City: Hobbs																	
Project Name: 4952, Chalupa South				State: NM Zip: 88240																	
Project Location:				Phone #: 575-318-5017																	
Sampler Name: Chris Flores				Fax #:																	
<small>FOR LAB USE ONLY</small>																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME							
H231811																					
31	A2 FL-31 @ 4'	C	1			X				X		4.13.23	1630	X	X	X					
32	A2 FL-32 @ 4'	C	1			X				X			1635	X	X	X					
33	A2 FL-33 @ 4'	C	1			X				X			1640	X	X	X					
34	A2 FL-34 @ 4'	C	1			X				X			1645	X	X	X					
35	A2 FL-35 @ 4'	C	1			X				X			1650	X	X	X					
36	A2 FL-36 @ 4'	C	1			X				X			1655	X	X	X					

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Relinquished By:	Date: 4.14.23 Time: 11:30	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113 5.3c / 4.7c	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials)
			REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; cflores@tasman-geo.com

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



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

March 17, 2023

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

RE: CHALUPA SOUTH AND NORTH

Enclosed are the results of analyses for samples received by the laboratory on 03/15/23 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2023	Sampling Date:	03/15/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	CHALUPA SOUTH AND NORTH	Sampling Condition:	Cool & Intact
Project Number:	4951 AND 4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: IMPORTED SOIL - 01 (H231191-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	4.16	
Toluene*	<0.050	0.050	03/16/2023	ND	1.90	95.2	2.00	3.10	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.91	95.7	2.00	3.92	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.83	97.1	6.00	3.66	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/16/2023	ND	416	104	400	3.92	

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	03/16/2023	ND	174	87.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	178	89.0	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2023	Sampling Date:	03/15/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	CHALUPA SOUTH AND NORTH	Sampling Condition:	Cool & Intact
Project Number:	4951 AND 4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: IMPORTED SOIL - 02 (H231191-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	4.16	
Toluene*	<0.050	0.050	03/16/2023	ND	1.90	95.2	2.00	3.10	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.91	95.7	2.00	3.92	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.83	97.1	6.00	3.66	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/16/2023	ND	416	104	400	3.92	

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	03/16/2023	ND	174	87.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	178	89.0	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2023	Sampling Date:	03/15/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	CHALUPA SOUTH AND NORTH	Sampling Condition:	Cool & Intact
Project Number:	4951 AND 4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: IMPORTED SOIL - 03 (H231191-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	4.16	
Toluene*	<0.050	0.050	03/16/2023	ND	1.90	95.2	2.00	3.10	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.91	95.7	2.00	3.92	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.83	97.1	6.00	3.66	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/16/2023	ND	416	104	400	3.92	

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	03/16/2023	ND	174	87.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	178	89.0	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences		BILL TO				ANALYSIS REQUEST															
Project Manager: Kyle Norman		P.O. #:				Chlorides TPH 8015 M BTEX TPH TX1005 Complete Cations/Anions TDS HOLD 24 Hour RUSH															
Address: 2620 W. Marland Blvd.		Company: Tasman Geo																			
City: Hobbs State: NM Zip: 88240		Attn: Kyle Norman																			
Phone #: 575-318-5017 Fax #:		Address: 2620 W. Marland																			
Project #: 4951 and 4952 Project Owner: Foundation Energy		City: Hobbs																			
Project Name: Chalupa South and North		State: NM Zip: 88240																			
Project Location:		Phone #: 575-318-5017																			
Sampler Name: Miguel Cardona Jr.		Fax #:																			
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.		SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME							
H231191	Imported Soil - 01	C	1			X				X		3/15/23	12:00	X	X	X					
	Imported Soil - 02	C	1			X				X		3/15/23	12:05	X	X	X					
	Imported Soil - 03	C	1			X				X		3/15/23	12:10	X	X	X					

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Relinquished By:	Date: 3/15/23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
	Time: 1430		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:	
Relinquished By:	Date:	Received By:	REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; jsmith@foundationenergy.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) T.O.		

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

APPENDIX E – CLOSURE FORM (FORM C-141)

Incident ID	nOY1706630747
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: James Smith Title: HSE/Regulatory Manager
 Signature:  Date: 06/06/2023
 email: jsmith@foundationenergy.com Telephone: 918-346-7350

OCD Only

Received by: Jocelyn Harimon Date: 06/20/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 7/7/2023
 Printed Name: Brittany Hall 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

Action 230050

CONDITIONS

Operator: FOUNDATION ENERGY MANAGEMENT, LLC 5057 KELLER SPRINGS RD ADDISON, TX 75001	OGRID: 370740
	Action Number: 230050
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	7/7/2023