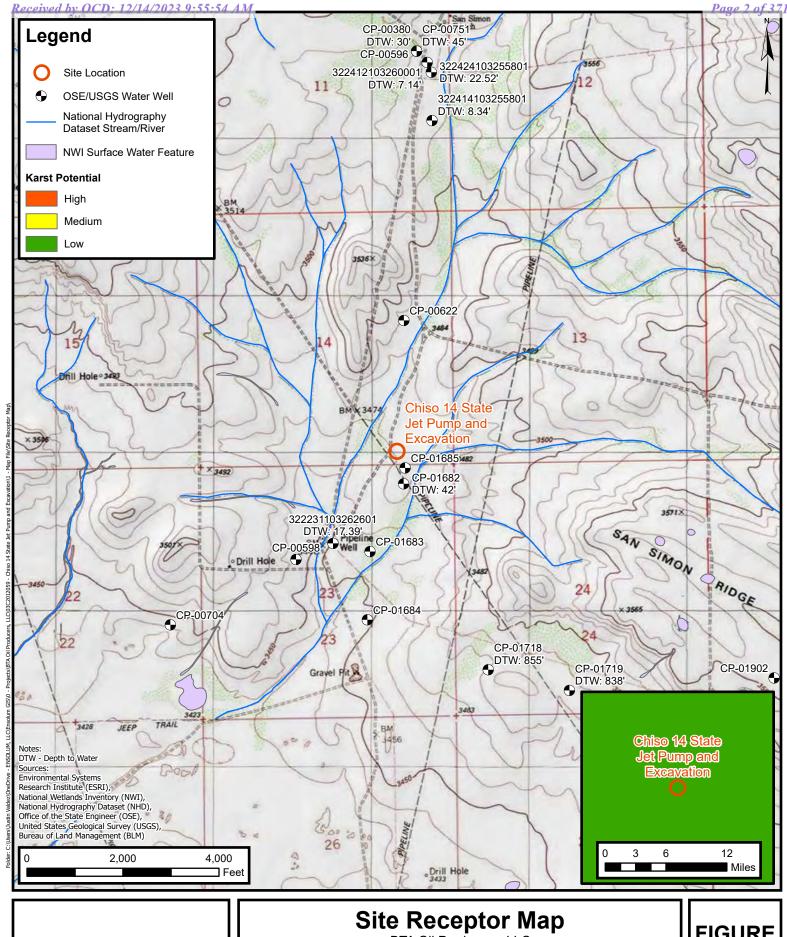


Figures

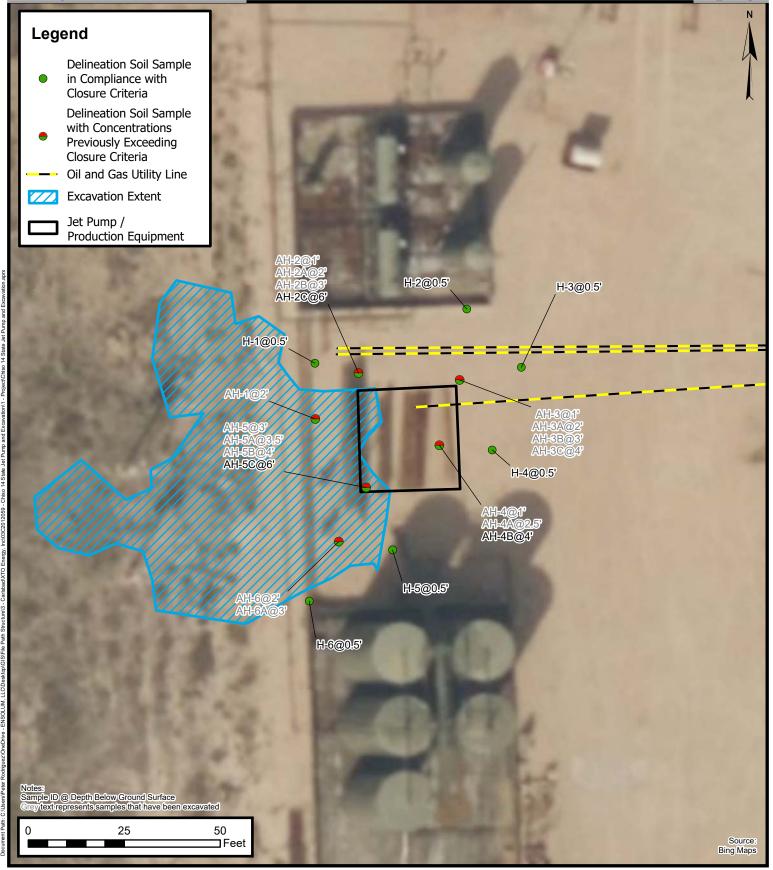




BTA Oil Producers, LLC
Chiso 14 State Jet Pump and Excavation
Incident Number: nAPP2205837214
Unit P, Sec 14, T22S, R34E
Lea County, New Mexico

FIGURE 1

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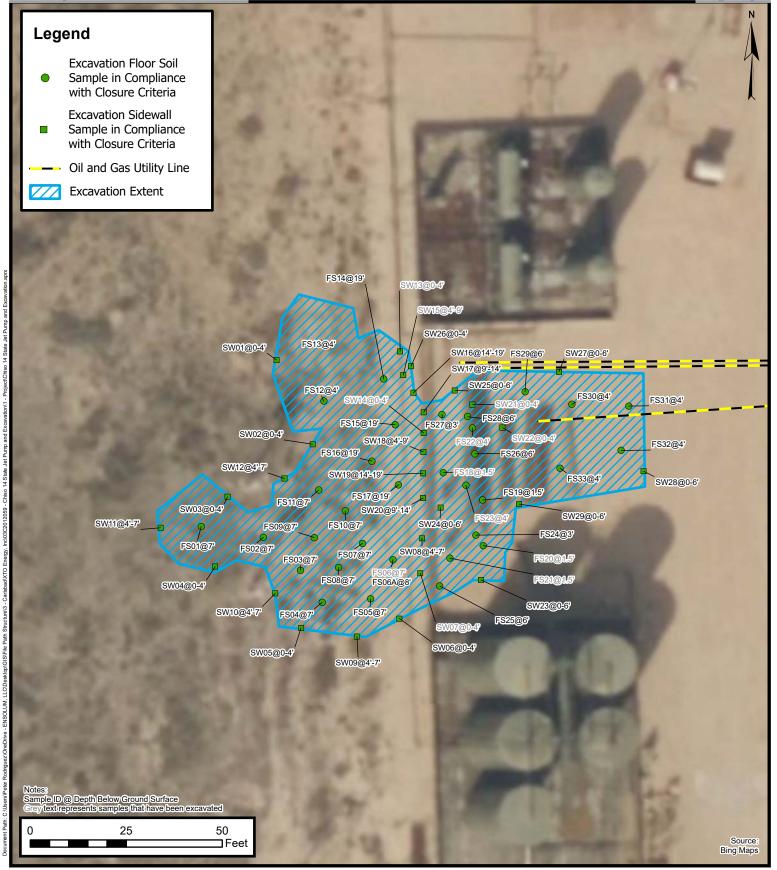




Delineation Soil Sample Locations

XTO Energy, Inc Chiso 14 State Jet Pump and Excavation Incident Number: nAPP2205837214 Unit P, Sec 14, T22S, R34E Lea County,New Mexico **FIGURE**

2





Excavation Soil Sample Locations

XTO Energy, Inc Chiso 14 State Jet Pump and Excavation Incident Number: nAPP2205837214 Unit P, Sec 14, T22S, R34E Lea County,New Mexico **FIGURE**

3



Table 1

Soil Sample Analytical Results



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Confi	rmation Soil Sa	amples				
FS01	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS03	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS04	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS05	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS06	06/13/2023	7	<0.050	<0.300	<10.0	860	204	860	1,064	32.0
FS06A	07/12/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS09	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS10	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS11	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS12	06/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	06/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS14	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS16	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS17	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS18	06/13/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
FS19	06/13/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	06/13/2023	1.5	<0.050	<0.300	<10.0	359	97.0	359	456	400
FS21	06/13/2023	1.5	<0.050	<0.300	<10.0	25.6	<10.0	25.6	25.6	736
FS22	07/27/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,330
FS23	07/24/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
FS24	10/02/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS25	10/02/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS26	10/03/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS27	10/03/2023	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Ensolum 1 of 4



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS28	10/03/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS29	10/03/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS30	10/03/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS31	10/03/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS32	10/03/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS33	10/03/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW01	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW03	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW07	06/12/2023	0-4	<0.050	<0.300	<10.0	176	38.6	176	215	1,340
SW08	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW09	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW10	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	06/13/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW12	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW13	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120
SW14	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SW15	06/12/2023	4-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
SW16	06/12/2023	14-19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW17	06/12/2023	9-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW18	06/12/2023	4-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW19	06/12/2023	14-19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW20	06/12/2023	9-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Ensolum 2 of 4



	Sample	Sample Depth	Benzene	Total BTEX	TPH GRO	TPH DRO	TPH ORO	GRO+DRO	Total TPH	Chloride
Sample I.D.	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW21	07/31/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,000
SW22	07/31/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,600
SW23	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW24	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW25	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW26	10/03/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW27	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW28	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW29	10/03/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
				Delir	neation Soil Sa	mples				
AH-1	07/06/2023	2	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
AH-2	07/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
AH-2A	07/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
AH-2B	09/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400
AH-2C	09/14/2023	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
AH-3	07/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
AH-3A	07/06/2023	2	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,080
AH-3B	09/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
AH-3C	09/14/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
AH-4	07/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,840
AH-4A	07/06/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
AH-4B	09/14/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
AH-5	07/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,130
AH-5A	07/06/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,560
AH-5B	09/14/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
AH-5C	09/14/2023	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480

Ensolum 3 of 4



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	NE	100	600	
AH-6	07/06/2023	2	<0.050	<0.300	<10.0	115	20.8	115	136	96.0
AH-6A	09/14/2023	3	<0.050	<0.300	<10.0	11.7	<10.0	11.7	11.7	592
H-1	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-2	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-3	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-4	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-5	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-6	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Ensolum 4 of 4



APPENDIX A

Tetra Tech Remediation Work Plan



April 20, 2023

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

RE: Remediation Workplan
BTA Oil Producers
Chiso 14 8711 #3 Jet Pump Release
Lea County, New Mexico
nAPP2205837214

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by BTA Oil Producers (BTA) to compile and prepare a closure report for remediation activities conducted by RXsoil and Alves Oilfield Solutions, Inc. following a produced water release that occurred at the Chiso 14 8711 #3, Section 14, Township 22 South, Range 34 East, Lea County, New Mexico (Site). The release site coordinates are 32.38511°, -103.43594°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, a release at the Chiso 14 8711 #3 occurred after a plug on a jet pump manifold failed, resulting in approximately 165 barrels (bbls) of produced water to be released into an open excavation at the site. Approximately 70 bbls of produced water was recovered from the excavated area. The open excavation at the site was being conducted to investigate evidence of a suspected release that was discovered by the landowner. The jet pump release flowed onto the pad and the adjacent pasture west of the Site, impacting an area with a length of 60 feet and a maximum width of 80 feet. On February 26, 2022, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is included in **Appendix A**.

Suspected Release

BTA's subcontractor, RXsoil conducted site assessment activities from in September through November of 2021 based on evidence of a suspected release at the site. A total of seven (7) soil borings (SP1-A, SP3-A, SP4-A, and SP1 through SP4) were installed to depths ranging from ground surface to 2 ft bgs. The investigatory delineation sample locations are shown on **Figure 3.** The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.



Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there are two intermittent water features located approximately 785 feet to the west and 650 feet to the east of the horizontal extent of the release. No significant watercourses were identified within 300 feet of the Site. There were no playas, lakebeds, sinkholes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst area. The NFHL Map, USGS Mapper, and NMOSE data are shown in **Appendix B**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institutions, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Two Points of Diversion (POD) were identified within a 0.5-mile radius of the Site. CP-1682-POD1 South 2, an active well located approximately 0.13 miles south of the horizontal extent of the release. NMOSE records indicate the well was drilled to a total depth of 294 ft bgs on September 13, 2019, and groundwater was first encountered at 42 ft bgs. USGS well # 322231103262601 is located approximately 0.44 miles southwest of the Site. USGS records indicate the well was drilled to a total depth of 60 ft bgs on with a measured water depth of 17.39 ft bgs. POD records are presented in **Appendix B**.

POD ID	Distance from Site (Miles)	Date of Data	Resource of Information	Depth of Well	Depth to Water
CP-1682-POD1	0.13	09/13/2019	NMOSE	294'	42'
South 2					
322231103262601	0.44	12/18/2015	USGS	60'	17.39'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to



determine the Recommended Remedial Action Levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg), 50 mg/kg for total BTEX, 100 mg/kg for total TPH and 600 mg/kg for Chlorides.

Remediation Activities

Based on the results of the suspected release investigation activities, BTA's subcontractors, RXsoil and Alves Oilfield Solutions, LLC (Alves) mobilized to the site to begin remediation activities on February 23,2022. On February 26, 2022, a release caused by a plug failure on a jet pump at the site, adjacent to the excavation, spilled produced water onto the pad and into the open excavation of the suspected release area. Approximately 165 bbls of produced water was released and 70 bbls were recovered from the excavation area. The release impacted area is shown on **Figure 4**.

Between the time of the initial excavation activities and the release from the jet pump into the excavation, the excavation was dug to depths ranging from 3 to 9 ft bgs. Five bottom samples were collected along the excavation bottom (B1 through B5) to delineate to vertical extent of impact. Sample points B2 and B5 reported concentrations below NMOCD limits by laboratory analysis. Sample point B4 was confirmed below NMOCD limits at 5 ft bgs. Sample points B1 and B3 were field screened and indicated chloride concentrations of 356 ppm and non-detect, respectively. Sample points B1 and B3 were not submitted for laboratory analysis before the jet pump release into the excavated area on top of the previously sampled excavation. RXsoil's field screening data is presented in **Appendix E**.

From February 28, 2022, through June 7, 2022, following the jet pump release into the excavated area, Alves and RXsoil continued remediation activities at the site. The areas of impact were excavated to a depth ranging from 3 ft bgs to 19 ft bgs. Field screening was conducted throughout the excavation process to determine the appropriate depth for confirmation sampling. It should be noted that no delineation or confirmation samples were submitted for laboratory analysis in the release footprint around the jet pump area due to safety concerns and the inability to maneuver equipment into the area. The confirmation sample locations area shown on **Figure 5**.

A total of seven (7) confirmation bottom hole samples (BS 1 through BS 6 and SP 2) were collected and a total of eleven (11) confirmation sidewall samples (SW 1 through SW 11) were collected by Alves on February 28, 2022, and June 7, 2022. Additionally, seven (7) confirmation samples (N Wall 2, Bottom, N Wall 1, N Bottom, S Wall, bottom #2 and W Wall) were collected at the Stie from March 8, 2022, through March 10, 2022. Unfortunately, mapping data and sample locations are not available for these sample points. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 2, all final confirmation samples indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs of 100 mg/kg of Total TPH, 10 mg/kg for Benzene, 50 mg/kg for Total BTEX and 600 mg/kg for chlorides in all confirmation samples.



A 20 ml liner was installed at 19 ft bgs into the east side of the excavation as an extra precautionary measure after confirmation sample SP 2 reported below NMOCD RRALs at 18 and 19 ft bgs. The liner area was subsequently backfilled to approximately 13 ft bgs. In the release area adjacent to the jet pump on the site, field screening was conducted which indicated elevated chloride concentrations in the top two feet bgs. Due to the equipment and power poles in this area, Alves was unable to excavate this area.

Work Plan

Based on the C-141 (nAPP2205837214) and information provided by BTA, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH will be followed for the site. The C-141 is included in **Appendix A**.

BTA proposes to vertically and horizontally delineate the area surrounding the jet pump at the Site and between the jet pump and open excavation area by installing twelve (12) auger holes within and on the perimeter of the release impacted area. Vertical auger holes (AH-1 through AH-6) will be installed to a depth of 4 ft bgs, or feasible utilizing a hand auger, and samples will be collected at each 1-foot interval for submission to the analytical laboratory. Horizontal auger holes (H-1 through H-6) will be installed to a depth of 1 ft bgs along the perimeter of the release footprint in an attempt to achieve horizontal delineation. A deferral may be requested in these areas due to the equipment present at the Site and the safety concerns associated with excavating in these areas, pending analytical results.

Due to insufficient data regarding the confirmation samples collected at the Site, BTA proposes to re-sample the open excavation at the Site by collecting nine (9) sidewall samples and nine (9) bottom samples. The confirmation samples will be collected as a 5-point composite representative of approximately every 500 sq ft to demonstrate that the excavated area has been properly remediated. The Excavated area ranges in depth from 3 ft bgs to 19 ft bgs and covers an area of approximately 3,350 sq ft. A 20-mil liner was installed to 19 ft bgs and will be removed for the re-sampling event. A workplan sample location map is presented on **Figure 6**.

BTA requests approval of this workplan as soon as possible due to the safety concerns associated with the open excavation and landowner concerns regarding closure of the Site.

Pending analytical results, additional excavation and sampling activities may be required at the Site. If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.



Respectfully submitted, TETRA TECH

John Faught, G.I.T. Project Manager

Clair Gonzales, P.G. Senior Project Manager

Figures

Figure 1 - Site Overview Map

Figure 2 - Topographic Map

Figure 3 – Investigation Delineation Map

Figure 4 – Release Footprint Map

Figure 5 – Excavation Area and Confirmation Sample Location Map

Figure 6 - Workplan Sample Location Map

Tables

Table 1 – Delineation Analytical Results

Table 2 – Confirmation Analytical Results

Appendices

Appendix A – C-141

Appendix B - Site Characterization

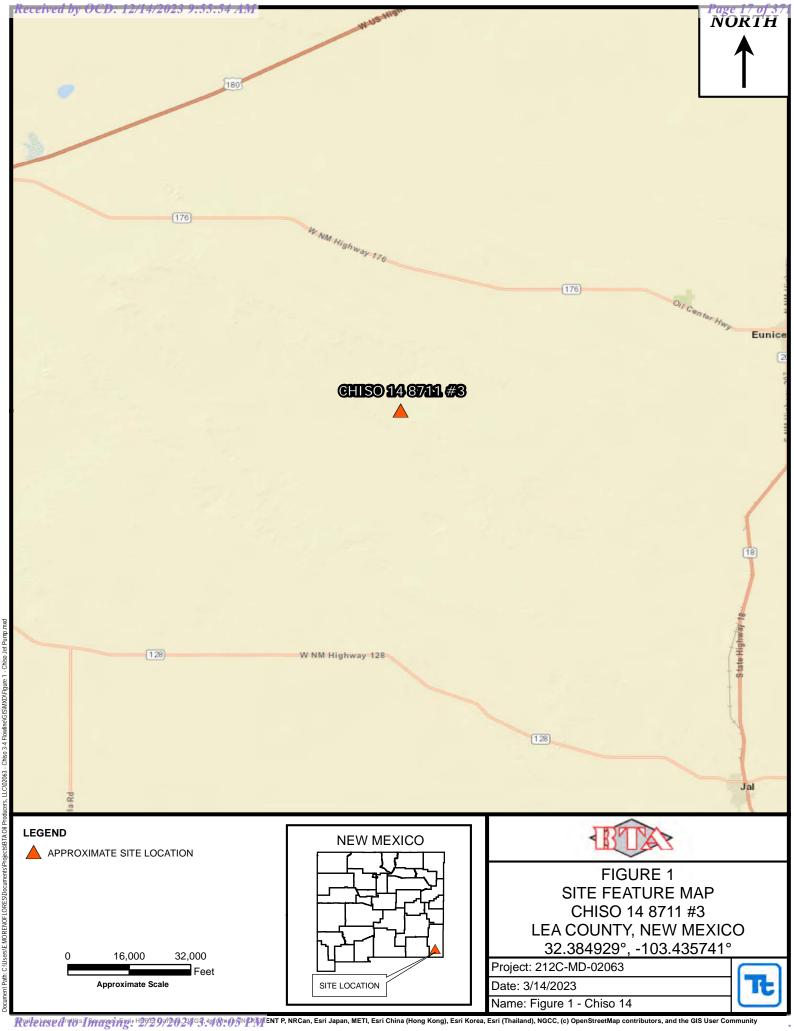
Appendix C – Photographic Documentation

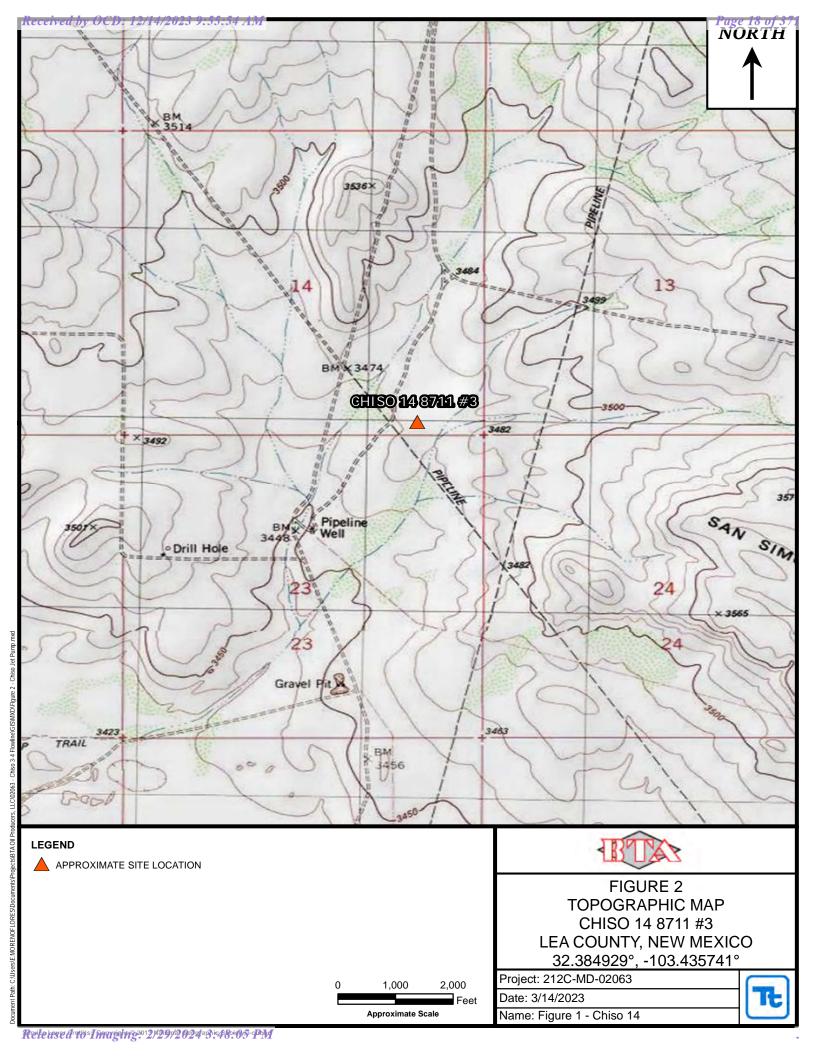
Appendix D – Analytical Laboratory Reports

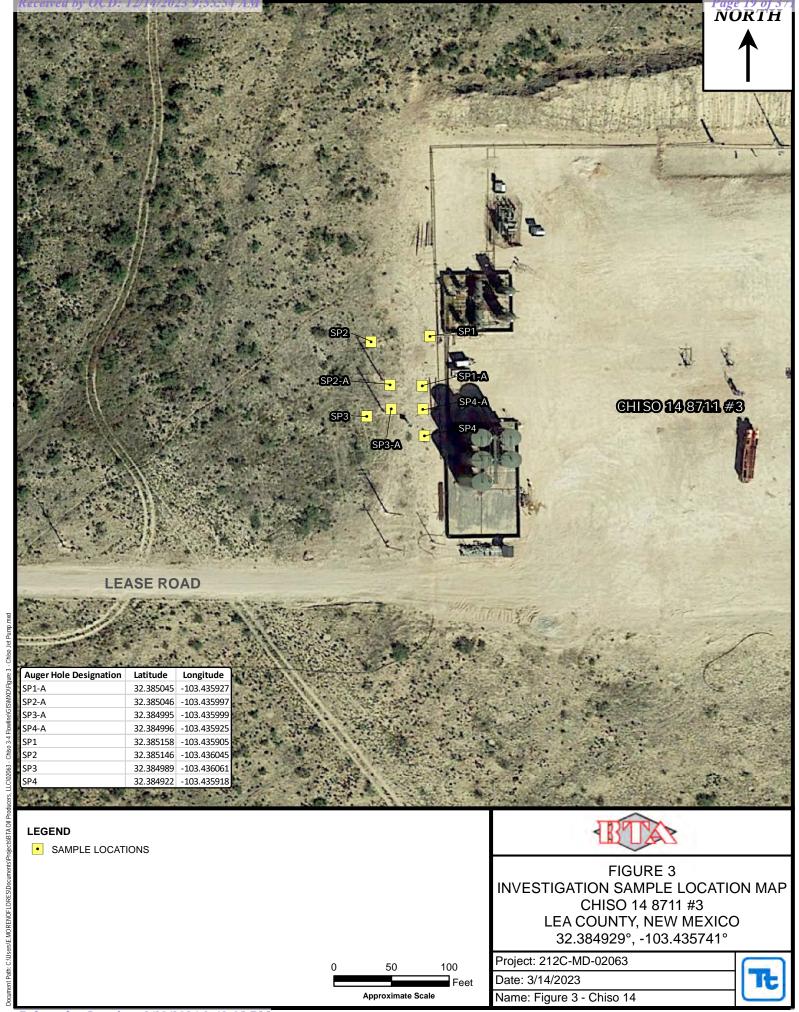
Appendix E – RxSoil Screening Data

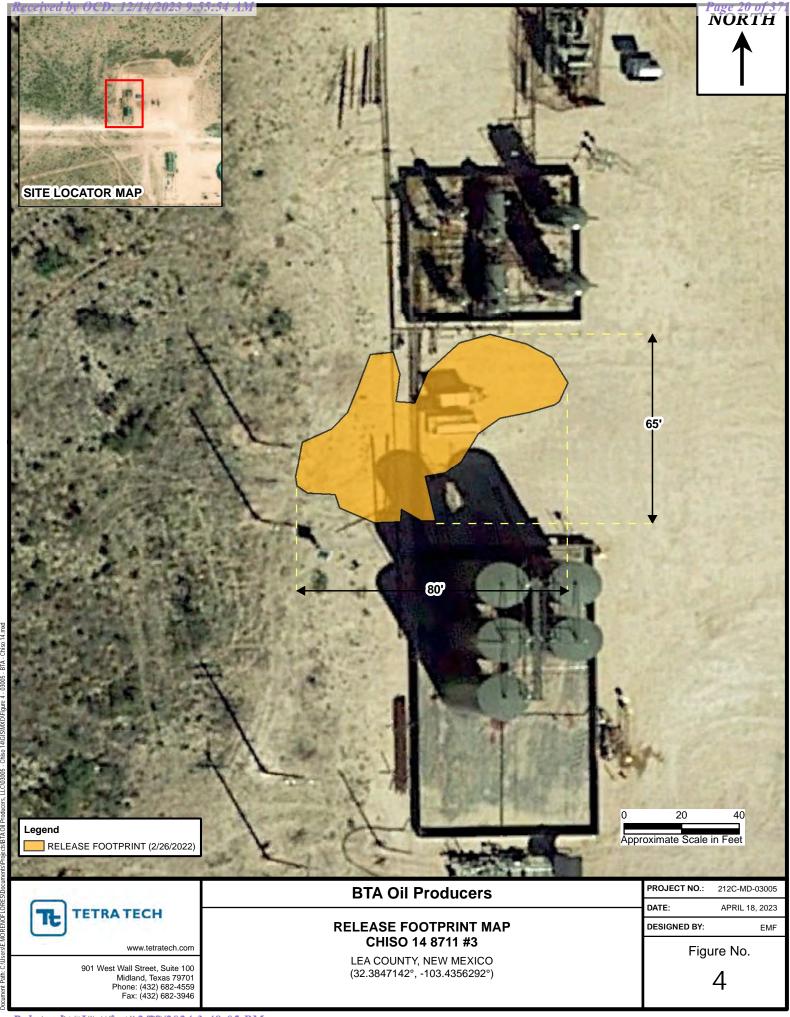


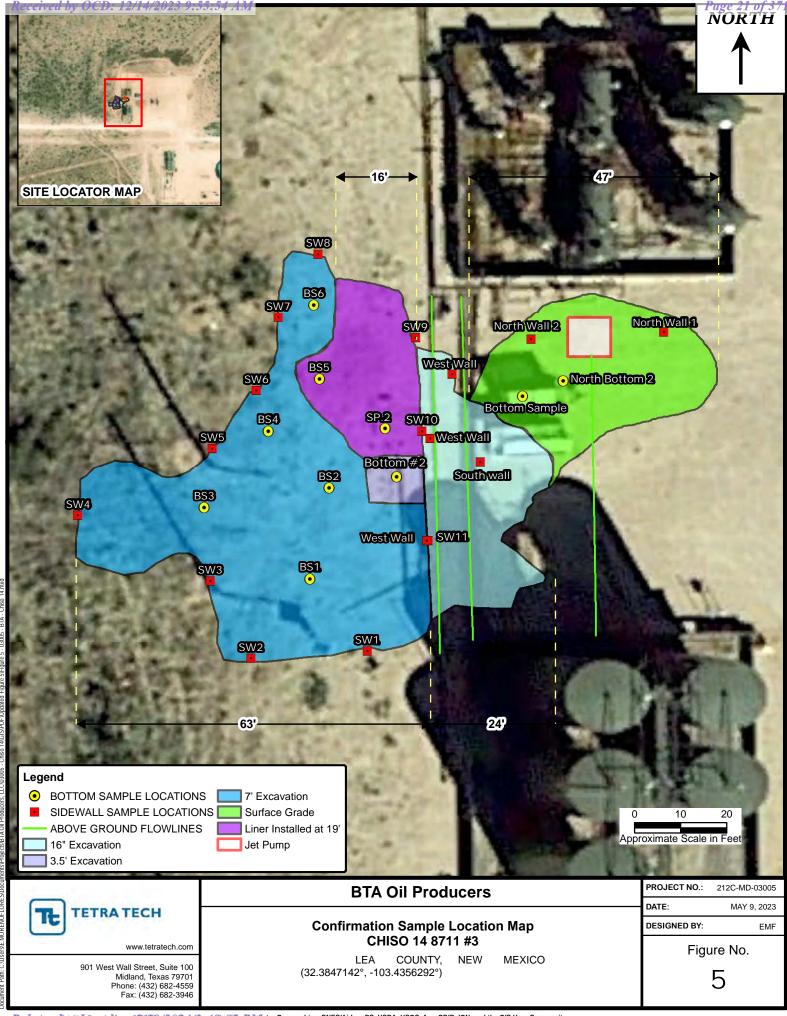
Figures

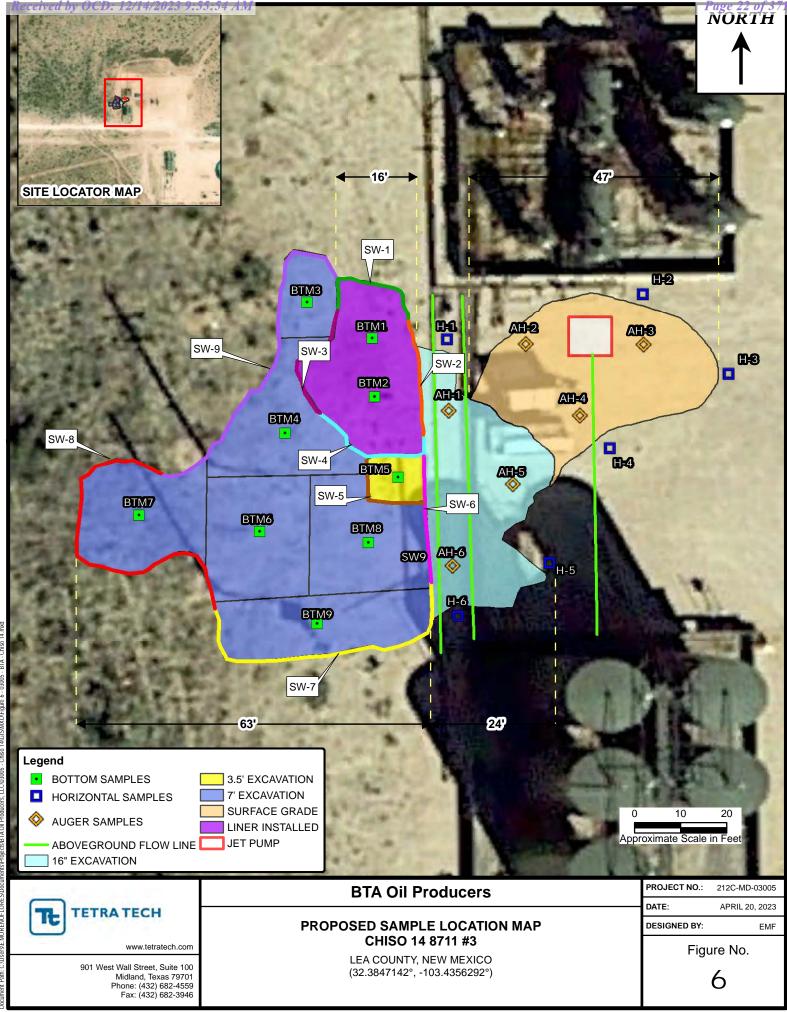














Tables

Received by OCD: 12/14/2023 9:55:54 AM

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Table 1 Delineation Analytical Results BTA Oil Producers Chiso 14 8711 #3 Jet Pump Release Lea County, New Mexico

Sample ID	Sample Date	Excavtion	Soil	Status		TPH (n	ng/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene	Xylene	Total BTEX	Chloride
		Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
Surface	9/14/2022	Surface	-	Х	<10.0	13	<10.0	13	<0.050	<0.050	<0.050	<0.150	<0.300	50000
1'	9/14/2022	1'	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2920
2'	9/14/2022	2'	-	Х	55	3080	688	3823	<0.050	<0.050	<0.050	<0.150	<0.300	960
SP1	11/15/2021	Surface	-	Х	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32
3F1	11/15/2021	2.0'	-	Х	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	48
SP2	11/15/2021	Surface	-	Х	<0.10	11.1	<0.10	11.1	<0.050	<0.050	<0.050	<0.150	<0.300	368
3FZ	11/15/2021	2.0'	-	X	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SP3	11/15/2021	Surface	-	Х	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
3F3 	11/15/2021	2.0'	-	Х	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	2200
SP4	11/15/2021	Surface	-	Х	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
3F4	11/15/2021	2.0'	-	Х	<0.10	<0.10	<0.10	<0.10	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	48.0

ft = feet below ground surface

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

^{(-) =} not analyzed for respective constituent

TPH = total petroleum hydrocarbons

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Table 2
Confirmation Analytical Results
BTA Oil Producers
Chiso 14 8711 #3 Jet Pump Release
Lea County, New Mexico

Sample ID	Sample Date	Excavtion	Soil	Status		TPH (m	g/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride
	,	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total		3, 3,	(mg/kg)	7 7 7 3 37	, ,	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
						Confirma	ation Soil S		Pre-Jet Pump Rele	ease			9,9	
B2	2/24/2022	-	X	-	<10.0	56.8	14.1	70.9	<0.050	<0.050	<0.050	<0.150	<0.300	80
B4	2/24/2022	5'	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
B5	2/24/2022	-	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96
B1	2/28/2022	_	X	T _	<10.0	<10.0	<10.0	<10.0	ost-Jet Pump Relo	ease <0.050	<0.050	<0.150	<0.300	352
			^	<u> </u>										
B2	2/28/2022	-		-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
B4	3/3/2022	-	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992
B5	2/28/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SP. 2	2/28/2022	18'	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	2/28/2022	19'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
N Wall 2	3/8/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Bottom	3/8/2022	7"	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
N Wall 1	3/9/2022	9"	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
N Bottom	3/9/2022	14"	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
S Wall	3/9/2022	4"	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom # 2	3/10/2022	6"	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
	3/10/2022	10"	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2400
W Wall	3/10/2022	10" 15"	-	X	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	48.0 48.0
014.4 (00.4)		13		1						·				
SW 1 (CS 1)	6/7/2022	-	X	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW 2 (CS 2)	6/7/2022	-	X	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW 3 (CS 3)	6/7/2022	-	X	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW 4 (CS 4)	6/7/2022	-	X	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW 5 (CS 5)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW 6 (CS 6)	6/7/2022	-	X	_	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW 7 (CS 7)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW 8 (CS 8)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW 9 (CS 9)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW 10 (CS 10)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW 11 (CS 11)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BTM1 (CBS 1)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
BTM2 (CBS 2)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

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Table 2 Confirmation Analytical Results BTA Oil Producers Chiso 14 8711 #3 Jet Pump Release Lea County, New Mexico

Sample ID	e ID Sample Date Excavtion		Soil	Soil Status TPH (mg/kg)					Benzene (mg/kg) Toluene (mg/kg)	Ethlybenzene	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride	
Campio is		Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total		l cidene (mg/ng/	(mg/kg)	// // // // // // // // // // // // //	1 0 tal 2 1 2 x (g/i.g/	(mg/kg)
RRALs								100	10				50	600 ma/ka
RRALS								mg/kg	mg/kg				mg/kg	600 mg/kg
BTM3 (CBS 3)	6/7/2022	ı	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	< 0.050	<0.150	<0.300	<16.0
BTM4 (CBS 4)	6/7/2022	-	X	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
BTM5 (CBS 5)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
BTM6 (CBS 6)	6/7/2022	-	Х	-	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) Guidelines for Remediation of Leaks, Spills, and Releases.

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance



Appendix A

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2205837214
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.38511 Longitude: -103.43594

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chiso 14 State Jet Pump and Excavation	Site Type: Tank Battery			
Date Release Discovered: 2/26/2022	API# (if applicable) Nearest well:			
Unit Letter Section Township Range	County			

Unit Letter	Section	Township	Range	County
Р	14	22S	34E	Lea

Surface Owner:	⊠ State	Federal	Tribal	Private ((Name:)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)			
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
Produced Water	Volume Released (bbls) 165 BBL	Volume Recovered (bbls) 70 BBL	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
C CD 1			

Cause of Release

Jet Pump Failure.

A plug on the manifold of a Jet Pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an active excavation being conducted to remove previously contaminated soil. The volume of recovered water was taken from the excavation. The estimate of the volume of water released was calculated from tank gauge data (attached).

•	
	Form C-141
	Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Received by OCD: 12X14/2028 9:55/54/MM

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The volume of the release exceeds 25 BBL.
N v □ v.	
Yes □ No	
If YES, was immediate r	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	e of Release (NOR) on the NMOCD Permitting website on 2/27/2022. The Incident ID listed
above was assigned	after the NOR was acknowledged by the NMOCD.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rel	ease has been stopped.
☐ The impacted area ha	as been secured to protect human health and the environment.
Released materials h	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have not been undertaken, explain why:
Per 19 15 29 8 R (4) NN	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 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 Companies will ally other federal, state, or found taws
Printed Name: Bob Ha	ll Title: Environmental Manager
Signature:	Date: 3/8/2022
Signature.	Date: 3/ 0/2022
email: bhall@btaoil.c	om Telephone: 432-682-3753
OCD Only	
Received by: Ram	ona Marcus Date: 3/10/2022

Chiso 14 State Water Tank Gauge – 2/26/2022

NAPP2205837214



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

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

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

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

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

CONDITIONS

Action 87973

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	87973
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rmarcus	None	3/10/2022



Appendix B

Site Characterization

Site Characterization Summary

Site Information:

BTA Oil Chiso 14 8711 #3 Jet Pump Release (February 2022) Lea County, New Mexico T22S, R34E, Section 14 (32.38511°, -103.43594°)

Site Characterization:

-Low Karst

-No significant water features within specified distances
-Groundwater 17.39' BGS 0.44 Miles southwest of the site. (USGS, Section 23, 2015 Sample)
-Groundwater 42' BGS 0.13 Miles south of the site. (NMOSE, Section 23, 2019 sample)

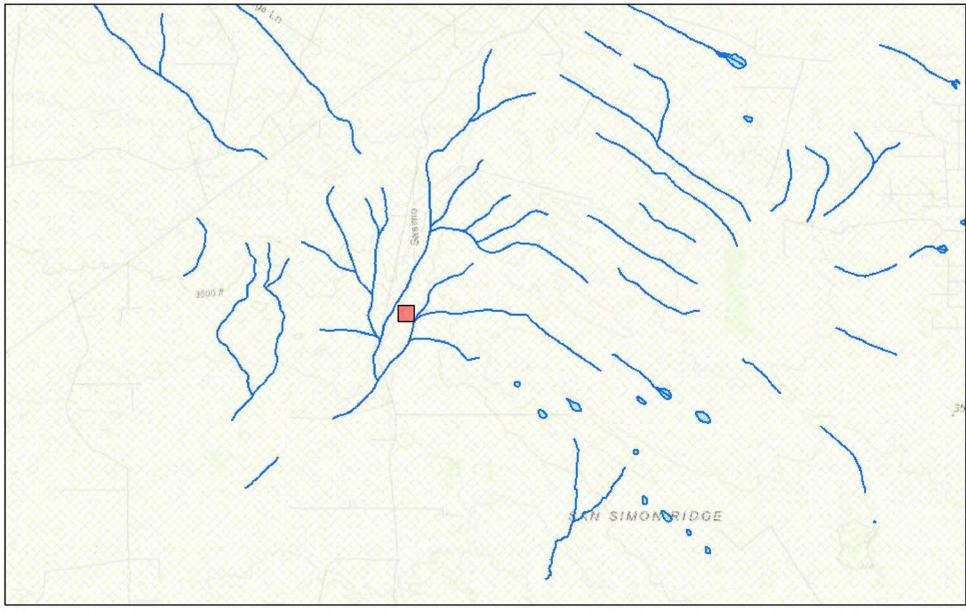
RRALs:

- -600 mg/kg Chlorides
- -100 mg/kg Total TPH
- -10 mg/kg Benzene
- -50 mg/kg Total BTEX

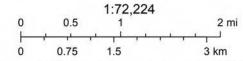
Explanation:

Due to groundwater depth measured at less than 50 ft bgs within 0.5 miles of the site, Most stringent RRALs will be followed.

New Mexico NFHL Data



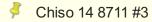
January 31, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

Chiso 14 8711 #3 Jet Pump Release

Legend



High



Medium

Chiso 14 8711 #8



National Water Information System: Mapper

USGS Home Contact USGS Search USGS







USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GC

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list = • 322231103262601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322231103262601 22S.34E.23.23131

Lea County, New Mexico Latitude 32°22'47.6", Longitude 103°26'25.3" NAD83 Land-surface elevation 3,452 feet above NAVD88 The depth of the well is 60 feet below land surface.

This well is completed in the Other aguifers (N99990THER) national aguifer.

code

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

land

surface

vertical

datum

Output formats Table of data Tab-separated data Graph of data Reselect period ? Water Water ? level, ? level, ? ? ? feet Water-Referenced feet Water-Date Time above vertical level Measuring Source of **Parameter** below Method of level datum datespecific **Status**

measurement

agency

measurement

approval

status

time

accuracy

Date	Time	Water- level date- time accuracy	? Parameter code	level, feet below land surface	level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	Water- level approval status
1968-06-10		D	62610		3425.15	NGVD29	1	Z			
1968-06-10		D	62611		3426.75	NAVD88	1	Z			
1968-06-10		D	72019	25.25			1	Z			
1971-09-08		D	62610		3423.42	NGVD29	Р	Z			
1971-09-08		D	62611		3425.02	NAVD88	Р	Z			
1971-09-08		D	72019	26.98			Р	Z			
1976-12-16		D	62610		3426.10	NGVD29	1	Z			
1976-12-16		D	62611		3427.70	NAVD88	1	Z			
1976-12-16		D	72019	24.30			1	Z			
1981-03-18		D	62610		3427.03	NGVD29	1	Z			
1981-03-18		D	62611		3428.63	NAVD88	1	Z			
1981-03-18		D	72019	23.37			1	Z			
1986-04-10		D	62610		3427.57	NGVD29	1	Z			
1986-04-10		D	62611		3429.17	NAVD88	1	Z			
1986-04-10		D	72019	22.83			1	Z			
1991-05-03		D	62610		3427.87	NGVD29	1	_			
1991-05-03		D	62611		3429.47	NAVD88	1				
1991-05-03		D	72019	22.53			1	Z			
1996-02-21		D	62610		3428.27	NGVD29	1				
1996-02-21		D	62611		3429.87	NAVD88	1				
1996-02-21		D	72019	22.13			1	S			
2015-12-18			62610		3433.01	NGVD29	1		USG		5
2015-12-18	21:30 UTC	m	62611		3434.61	NAVD88	1	S	USG	5	5
2015-12-18	21:30 UTC	m	72019	17.39			1	S	USG	S :	5

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips Explanation of terms Subscribe for system changes News

Accessibility Policies and Notices FOIA Privacy

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-31 15:30:35 EST

0.29 0.25 nadww01





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

7310 55

NO	OSE POD NO CP-1682-P	,	*		WELL TAG ID NO. 2062A			OSE FILE NO(S	S).	· :	
OCATI	WELL OWN		s) ck Company/Glenn's	Water Well S	Service, Inc.			PHONE (OPTIO 575-398-242		<u> </u>	
GENERAL AND WELL LOCATION	WELL OWN PO Box 6		NG ADDRESS					CITY Tatum		STATE S	21P 3267
ě			Di	GREES	MINUTES	SECON	DS				
A	WELL LOCATIO	, I		32	22	59.6		* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
VERAI	(FROM GP	PS) -	ATITUDE ONGITUDE	-103	26	7.8		* DATUM REC	QUIRED: WGS 84		
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW 1/4 NE 1/4 NE 1/4 Section 23, Township 22 South, Range 34 East on Merchant Livestock Company Land										
	LICENSE NO WD		NAME OF LICENSED	DRILLER	Corky Glenn				NAME OF WELL DRI Glenn's W	ILLING COMPANY Vater Well Service, In	nc.
	DRILLING S		DRILLING ENDED 09/13/19	DEPTH OF CO	MPLETED WELL (FT 294)		E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT 42)
z	COMPLETE	D WELL IS	: ARTESIAN	DRY HOL	DRY HOLE SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 31		
TIO	DRILLING F	LUID:	☐ AſR	/ MUD	ADDITIV	ES – SPEC	IFY:				
ORMA	DRILLING M	ETHOD:	7 ROTARY	HAMMER	CABLETO	OOL	ОТНЕ	R – SPECIFY:			
INE	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND	/OR	CA	SING	CASING	CASING WALL	SLOT
CASING INFORMATION	FROM	то	DIAM (inches)	,	(include each casing string, and		Т	VECTION YPE ing diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)
	0	22.5	20"	St	eel 12 3/4" OD			in End	12.25	.25	
VG &	0	294'	20"	Steel Cas	ing 8 5/8" / 8.625"	OD	Pla	in End	8.125	.25	1/8"
LL				Botto	om 252 Perforated						
DRILLING											
2. 1											
						_					
				<u>L</u>						<u> </u>	L
A.E.	DEPTH	(feet bgl)	BORE HOLE DIAM. (inches)	,	ST ANNULAR SE VEL PACK SIZE-				AMOUNT (cubic feet)	METHO PLACE	
ERI	0	22.5'	20"		Cemented	1 Redi M	ix		Fill to Top	Top I	our
MATERIAL	0	294'	20"		3/8" Veiln	nore Grav	vel		18.52 CY	Top F	our
X ₹					·						
ULA				<u> </u>							
ANNULAR											
3. A											
FOR	OSE INTER	NAL US	E					WR-20	WELL RECORD	& LOG (Version 06/	30/17)

POD NO.

TRN NO.

WELL TAG ID NO. 2062A

PAGE 1 OF 2

Ser 23

FILE NO.

LOCATION 212

	DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING
						ZONES (gpm)
	0	6	6	Soil	Y VN	
	6	9	3	Soil & Sand	Y VN	
	9	16	7	Caliche	Y VN	
	16	20	4	Clay & Sand	Y VN	
	20	42	22	Red Clay	Y ✓N	
JT:	42	56	14	Brown Sandrock	✓ Y N	5.00
HYDROGEOLOGIC LOG OF WELL	56	63	7	Red Clay	Y VN	
30	63	68	5	White & Green Clay	Y ✓N	
Š	68	92	24	Brown Sandrock	✓Y N	9.00
GIC	92	122	30	Red Clay	Y ✓N	
010	122	128	6	Brown Shale	Y ✓N	
GEC	128	165	37	Red Clay with Stringers of Brown Sandrock	Y ✓ N	
)RO	165	187	22	Brown Shale	Y ✓N	
H	187	225	38	Red Clay & Red Shale	Y ✓N	
4	225	242	17	Brown Shale	Y ✓N	
	242	274	32	Blue Sandrock & Shale	✓ Y N	1.00
	274	294	20	Red Shale	Y ✓N	
					Y N	
					Y N	
					Y N	
					Y N	<u> </u>
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	₹ PUM	р Па	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	15.00
	E TOWN	· LJ^		DALEK STEEL 1.		
NO	WELL TES	T TEST STAR	RESULTS - ATT T TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE ER THE TESTING PERI	METHOD, OD.
VISI	MISCELLA	NEOUS INF	ORMATION:			
PER						
SU						
E						
TEST; RIG SUPERVISION	DDINTALA	Æ(E) OF D	DILL DIC CLIPPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	CTRICTION OTHER T	HAN I ICENICEE
5. T					STRUCTION OTHER T	HAN LICENSEE.
	Travis Gler	in License	# 1719 (Glenn's	Water Well Service, Inc.)		
E I				FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL		
SIGNATURE				00 DAYS AFTER COMPLETION OF WELL DRILLING:		baronibbit
NA.		a 1	0-			
		orth		Corky Glenn	9/17/1	g
9		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)
FILE NO. CP - 1682	POD NO.	TRN NO. 632044
LOCATION 212 Sec 23 7225	R 34E	WELL TAG ID NO. 2062 PAGE 2 OF 2



Appendix C

Photographic Documentation

Photo: 1

Description:

View of Remediation Activities – North side of the Site facing south.



Photo: 2

Description:

View of Remediation Activities – North side of the Site facing southeast.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
11/18/22- 11/29/22	212C-MD-02963	Alves Oilfield Services/ Tetra Tech, Inc.	Page 1 of 5	BTA Oil Company	Chiso 3-4 Jet Pump Release	TETRA TECH

Photo: 3

Description:

View of Remediation Activities – South side of the Site facing northeast.



Photo: 4

Description:

View of Remediation Activities – North side of the Site facing southeast.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
11/18/22- 11/29/22	212C-MD-02963	Alves Oilfield Services/ Tetra Tech, Inc.	Page 2 of 5	BTA Oil Company	Chiso 3-4 Jet Pump Release	TETRA TECH

Photo: 5

Description:

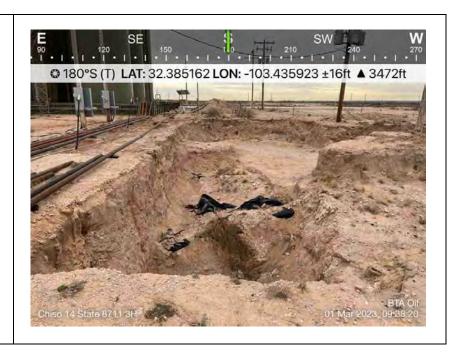
View of Remediation Activities – South side of the Site facing north.



Photo: 6

Description:

View of the excavation – North side of the site facing South.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TE.
11/18/22- 11/29/22	212C-MD-02963	Alves Oilfield Services/ Tetra Tech, Inc.	Page 3 of 5	BTA Oil Company	Chiso 3-4 Jet Pump Release	TETRA TECH

Photo: 7

Description:

View of the excavation adjacent to the release area.



Photo: 8

Description:

View of the excavation – South side of the site facing north.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
11/18/22- 11/29/22	212C-MD-02963	Alves Oilfield Services/ Tetra Tech, Inc.	Page 4 of 5	BTA Oil Company	Chiso 3-4 Jet Pump Release	TETRA TECH

Photo: 9

Description:

View of the excavation – West side of the site facing northeast.

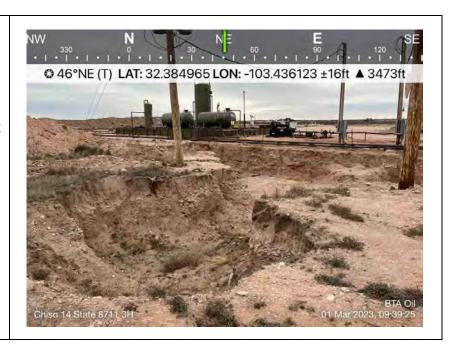


Photo: 10

Description:

View of the excavation – southeast side of the site facing northwest.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
11/18/22- 11/29/22	212C-MD-02963	Alves Oilfield Services/ Tetra Tech, Inc.	Page 5 of 5	BTA Oil Company	Chiso 3-4 Jet Pump Release	TETRA TECH



Appendix D

Analytical Laboratory Reports



September 20, 2021

MATTHEW LONGCRIER
RX-SOIL INC.
201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: CHISO 14 STATE

Enclosed are the results of analyses for samples received by the laboratory on 09/15/21 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 09/15/2021
Reported: 09/20/2021
Project Name: CHISO 14 STATE

Project Name: CHISO 14 STA
Project Number: NOT GIVEN
Project Location: BTA - JAL NM

Sampling Date: 09/14/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SURFACE (H212552-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2021	ND	1.82	91.0	2.00	3.11	
Toluene*	<0.050	0.050	09/16/2021	ND	1.99	99.6	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/16/2021	ND	1.96	98.0	2.00	2.35	
Total Xylenes*	<0.150	0.150	09/16/2021	ND	5.95	99.1	6.00	2.15	
Total BTEX	<0.300	0.300	09/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50000	16.0	09/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	12.9	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	09/17/2021	ND					
Surrogate: 1-Chlorooctane	95.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



09/14/2021

Analytical Results For:

RX-SOIL INC. MATTHEW LONGCRIER 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 09/15/2021 Reported: 09/20/2021

Project Name: CHISO 14 STATE Project Number: NOT GIVEN Project Location: BTA - JAL NM

Sampling Type: Soil Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By: Tamara Oldaker

Sample ID: 1' (H212552-02)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2021	ND	1.82	91.0	2.00	3.11	
Toluene*	<0.050	0.050	09/16/2021	ND	1.99	99.6	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/16/2021	ND	1.96	98.0	2.00	2.35	
Total Xylenes*	<0.150	0.150	09/16/2021	ND	5.95	99.1	6.00	2.15	
Total BTEX	<0.300	0.300	09/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	09/16/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2021	ND	225	112	200	0.847	
DRO >C10-C28*	<10.0	10.0	09/17/2021	ND	226	113	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	09/17/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.6	% 38.9-14	2						

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Celey D. Keine



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

Analytical Results For:

RX-SOIL INC. MATTHEW LONGCRIER 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 09/15/2021 Sampling Date: 09/14/2021

Reported: 09/20/2021 Sampling Type: Soil

Project Name: CHISO 14 STATE Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Tamara Oldaker

Project Location: BTA - JAL NM

Sample ID: 2' (H212552-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2021	ND	1.82	91.0	2.00	3.11	
Toluene*	<0.050	0.050	09/16/2021	ND	1.99	99.6	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/16/2021	ND	1.96	98.0	2.00	2.35	GC-NC
Total Xylenes*	<0.150	0.150	09/16/2021	ND	5.95	99.1	6.00	2.15	
Total BTEX	<0.300	0.300	09/16/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	272 5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/16/2021	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.4	10.0	09/18/2021	ND	190	95.2	200	0.563	
DRO >C10-C28*	3080	10.0	09/18/2021	ND	198	98.8	200	0.777	QM-07
EXT DRO >C28-C36	688	10.0	09/18/2021	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	223	% 38 9-14	2						

Surrogate: 1-Chlorooctadecane 223 % 38.9-142

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Relinquished By:

Date: 9/15

Time 8/0

Fax Result:

Bill to Bob HI

Phone Result:

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

Time:

Relinquished By

Sampler - UPS - Bus - Other:

9.20

Sample Condition
Cool Intact
Wyes Wyes
No No

CHECKED BY:
(Initials)

Cardinal cannot account worked channes

Delivered By: (Circle One)



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler Name: Project Name: Halass. Project Location Phone #: Project Manager: Company Name: Address: Lab I.D (575) 393-2326 FAX (575) 393-2476 214 10+ Matt Longuer Mart Sample I.D. new mexico Fax #: Project Owner: State: いたち Zip: (G)RAB OR (C)OMP # CONTAINERS waived unless made in writing and received by Cardinal within 30 days after completion of the applicable GROUNDWATER WASTEWATER SOIL MATRIX XXX OIL SLUDGE OTHER Fax #: State: City: P.O. #: Attn: Phone #: Address: Company: ACID/BASE: PRESERV ICE / COOL of profits incurred by client, its subsidiaries, OTHER BILL TO 9/M DATE SAMPLING 3:00 3100 TIME Chlorides X ANALYSIS REQUEST

Page 6 of 6



November 19, 2021

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: CHISO STATE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/21 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021 Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact Project Number: **EUNICE NM** Sample Received By: Tamara Oldaker

Project Location: BTA - EUNICE NM

Sample ID: SP 1 SURFACE (H213274-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/18/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	103 5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101 9	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact
Project Number: EUNICE NM Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: BTA - EUNICE NM

mg/kg

Sample ID: SP 1 2' (H213274-02)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	80.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.4	% 38.9-14	2						

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Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact
Project Number: EUNICE NM Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA - EUNICE NM

Sample ID: SP 2 SURFACE (H213274-03)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	11.1	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.0	% 38.9-14	2						

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Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact Sample Received By: Project Number: **EUNICE NM** Tamara Oldaker

Project Location: BTA - EUNICE NM

Sample ID: SP 2 2' (H213274-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	86.5	% 38.9-14	2						

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Celeg D. Freene



Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102

Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact Sample Received By: Project Number: **EUNICE NM** Tamara Oldaker

Project Location: BTA - EUNICE NM

Sample ID: SP 3 SURFACE (H213274-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	76.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.4	% 38.9-14	2						

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Analytical Results For:

RX-SOIL INC.
HAYES ADAMS
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact
Project Number: EUNICE NM Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: BTA - EUNICE NM

mg/kg

Sample ID: SP 3 2' (H213274-06)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	198	98.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.6	% 38.9-14	2						

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Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 Fax To: NA

Received: 11/16/2021 Sampling Date: 11/15/2021 Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact Sample Received By: Project Number: **EUNICE NM** Tamara Oldaker

Project Location: BTA - EUNICE NM

Sample ID: SP 4 SURFACE (H213274-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	< 0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	< 0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	65.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	62.8	% 38.9-14	2						

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11/15/2021

Analytical Results For:

RX-SOIL INC.
HAYES ADAMS
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 11/16/2021 Sampling Date:

ma/ka

Reported: 11/19/2021 Sampling Type: Soil

Project Name: CHISO STATE Sampling Condition: Cool & Intact
Project Number: EUNICE NM Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: BTA - EUNICE NM

Sample ID: SP 4 2' (H213274-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	53.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	51.3	% 38.9-14	2						

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Celey D. Kune



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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM:-000 R 3: 1 00004120	telinguished By:	whyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal wittin 30 days after completion of the applicable rovce. In on event shall Cardinal be liable for incodential or consequential damages, including without intrastion, business retemptions, loss of use, or loss of positis incurred by clear, it is subsidiaries, titlets or successors arising out of or relating to the postforman and service by Cardinal insparties or whether such claim is based upon any of the about a tractic reconstruct or creatests. Verbal Result: Verbal Result	EASE NOTE: Liability and Damagoes. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tork shall be limited to the amount paid by the client for the	1 12 8 8 38 15 15 15 15 15 15 15 15 15 15 15 15 15	6000	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 SP1	HEERH	Lab I.D. Sam	FOR LAB USE ONLY	Sampler Name: Omar	roject Location:	roject Name: Chiso &	roject #:	hone #:	City:	Address:	roject Manager: Hage	Company Name: (3/3) 383-24
Observed Temp. °C - 6.9 Corrected Temp. °C - 7.4	Time:	d any other cause whatsoever shall be de tail or consequental damages, including w conformen a of services hereunder by Car Date:	bility and client's exclusive remedy for any) DEN BOCK	2'	2 Suntace	Surface		Sample I.D.			By Euris Non	State	Project Owner:	Fax #:	State:			(313) 333-2320 FAX (313) 333-2410
6.9 Sample Condition Cool Intact Tes 3 Yes No No	Received By:	cause whatsoever shall be deemed watered unless made in witing and received by Cardinal wittin 30 days after completion of the operated damages, including without irratission, business interruptions, loss of use, or loss of potitis incurred by clent, its subsidiaries of services hereunder by Cardinal regardless of whether such claim is based upon any of the above "stated recorder or Grandless of whether such claim is based upon any of the above "stated recorder or Grandless". Verbal Ress. Received Bby:	claim arising whether based in contract or to					# CON GROU WASTE SOIL OIL SLUDG		MATRIX	77	70	SO	0	-	Zip:	0	7	
CHECKED BY: (Initials)	Ellahy	ceived by Cardinal within 30 days after of use, or loss of profits incurred by assed upon any of the above stated to	ort, shall be limited to the amount par				Nor. 15	OTHER ICE / CO OTHER	BASE:	PRESERV. SAM	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO
Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor Mone - 0.5 C.	Bill	r completion of the applicable client, its subsidiaries, cours or of semiliae. Verbal Result: Yes No	d by the client for the				Pan		T BT Chi	SAMPLING	<	5							
ard ☐ Bacteria (only) Sample Condition ☐ Cool Intact Observed Temp. °C ☐ Yes ☐ Yes ☐ Nc ☐ No Corrected Temp. °C	to BOB(BTA)	o Add'l Phone #:																	ANALYSIS REQUEST



March 02, 2022

MATTHEW LONGCRIER
RX-SOIL INC.
201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: CHISO 14 STATE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/22 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 03/01/2022 Reported: 03/02/2022

Project Name: CHISO 14 STATE
Project Number: NONE GIVEN
Project Location: BTA - EUNICE, NM

Sampling Date: 02/28/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B 1 (H220775-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.02	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.95	97.5	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.03	100	6.00	3.18	
Total BTEX	<0.300	0.300	03/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/02/2022	ND	432	108	400	0.00	
TPH 8015M mg/kg		/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	03/01/2022	ND	225	112	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	206	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.2	% 59.5-14	2						

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Celey D. Keine



02/28/2022

Soil

Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 03/01/2022 Sampling Date:
Reported: 03/02/2022 Sampling Type:

Project Name: CHISO 14 STATE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - EUNICE, NM

Sample ID: B 2 (H220775-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.02	
Ethylbenzene*	< 0.050	0.050	03/01/2022	ND	1.95	97.5	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.03	100	6.00	3.18	
Total BTEX	<0.300	0.300	03/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B mg/kg		Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/02/2022	ND	432	108	400	0.00	
TPH 8015M	PH 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	03/01/2022	ND	225	112	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	206	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					
Surrogate: 1-Chlorooctane	97.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	22						

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Celey D. Keine



02/28/2022

Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 03/01/2022 Sampling Date:

Reported: 03/02/2022 Sampling Type: Soil

Project Name: CHISO 14 STATE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - EUNICE, NM

Sample ID: B 5 (H220775-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.02	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.95	97.5	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.03	100	6.00	3.18	
Total BTEX	<0.300	0.300	03/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	CI-B mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/02/2022	ND	432	108	400	0.00	
TPH 8015M	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	03/01/2022	ND	225	112	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	206	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.7	% 59.5-14	2						

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Celey D. Keene



02/28/2022

Soil

Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 03/01/2022 Sampling Date:
Reported: 03/02/2022 Sampling Type:

Project Name: CHISO 14 STATE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - EUNICE, NM

Sample ID: S 1 (H220775-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	03/01/2022	ND	2.04	102	2.00	2.02	
Ethylbenzene*	< 0.050	0.050	03/01/2022	ND	1.95	97.5	2.00	2.94	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.03	100	6.00	3.18	
Total BTEX	<0.300	0.300	03/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/02/2022	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	03/02/2022	ND	225	112	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/02/2022	ND	206	103	200	8.58	
EXT DRO >C28-C36	<10.0	10.0	03/02/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	22						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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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Celeg D. Freene

CHAIN-OF-CUSTODY AND A NALYSIS REQUEST

ANALYSIS REQUEST

	D: 12/14/2023 9		Page 72 o
Sampler - UPS - Bus - Other:	Relinquished By: Relinquished By:	Company Name: Project Manager: Address: City: Phone #: Project #: Project Location: Sampler Name: FOR LAB I.D. Lab I.D. Lab I.D. At 220775 At 2207	
Other: Corrected Temp. °C	Vi. Date: January 10 J	Project Manager: Mod## Address: City: State: Zp: Attn: Rob Hill Project Name: Chi50 I4 State: Zp: Attn: Rob Hill Project Location: Cunic Attn: Rob Hill Sampler Name: My## For year attn: Rob Hill Project Location: Cunic Attn: Rob Hill Sampler Name: My### For year attn: Rob Hill Sampler Name: My#### For year attn: Rob Hill Sampler Name: My##### For year attn: Rob Hill Sampler Name: My####################################	aboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Sample Condition Cool Intact Cool Intact Pres Pres No I No	Received By: Received By: Received By:	C (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER X X X SOIL OIL OIL OIL SLUDGE SLUDGE	1 PS
CHECKED BY: (Initials)	Malley	P.O. #: Company: STA Attn: 806 H Address: City: State: Zip: Phone #: PRESERV SA CID/BAS OF DATE OT Let a the summin pair colved by Cardinal which a 0 days after ord, Lat. Lat. Lat. Lat. Exercises of professionary and colored by Cardinal which a 0 days after ord, Lat. Lat. Lat. Lat. Lat. Lat. Lat. Lat.	
Turnaround Time: Thormometer ID #11 Correction Factor Mo	Verbal Result: CALL Results are emarks:	SAMPLING SAMPLING FINE TIME 8 4.00 X 8 4.00 X 8 4.00 X	CHAIN-O

† Cardinal cannot accept verbal ottanges. Please email changes to celey.keene@cardinallabsnm.com -0.5c

Thormometer ID #113
Correction Factor None

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
| Yes | Yes | Ves | No Corrected Temp. °C

Verbal Result: Yes No Add'i Phone #:
All Results are emailed. Please provide Email address:

Page 7 of 7



March 01, 2022

MATTHEW LONGCRIER
RX-SOIL INC.
201 MAIN STREET, SUITE 1360

RE: CHISO 14 STATE

FORT WORTH, TX 76102

Enclosed are the results of analyses for samples received by the laboratory on 02/25/22 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 02/25/2022 Reported: 03/01/2022

Project Name: CHISO 14 STATE
Project Number: NONE GIVEN
Project Location: BTA - JAL NM

Sampling Date: 02/24/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B 2 (H220738-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2022	ND	1.98	98.8	2.00	4.18	
Toluene*	<0.050	0.050	02/27/2022	ND	1.98	99.0	2.00	3.19	
Ethylbenzene*	<0.050	0.050	02/27/2022	ND	1.99	99.3	2.00	2.77	
Total Xylenes*	<0.150	0.150	02/27/2022	ND	6.13	102	6.00	2.84	
Total BTEX	<0.300	0.300	02/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/26/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2022	ND	188	94.1	200	13.9	
DRO >C10-C28*	56.8	10.0	02/28/2022	ND	164	82.1	200	3.76	
EXT DRO >C28-C36	14.1	10.0	02/28/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 9	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

 Received:
 02/25/2022
 Sampling Date:
 02/24/2022

 Reported:
 03/01/2022
 Sampling Type:
 Soil

Project Name: CHISO 14 STATE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - JAL NM

Sample ID: B 4 5' (H220738-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2022	ND	1.98	98.8	2.00	4.18	
Toluene*	< 0.050	0.050	02/27/2022	ND	1.98	99.0	2.00	3.19	
Ethylbenzene*	<0.050	0.050	02/27/2022	ND	1.99	99.3	2.00	2.77	
Total Xylenes*	<0.150	0.150	02/27/2022	ND	6.13	102	6.00	2.84	
Total BTEX	<0.300	0.300	02/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/26/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2022	ND	188	94.1	200	13.9	
DRO >C10-C28*	<10.0	10.0	02/28/2022	ND	164	82.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/28/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	22						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 02/25/2022 Reported: 03/01/2022

Project Name: CHISO 14 STATE
Project Number: NONE GIVEN
Project Location: BTA - JAL NM

Sampling Date: 02/24/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B 5 (H220738-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2022	ND	1.98	98.8	2.00	4.18	
Toluene*	< 0.050	0.050	02/27/2022	ND	1.98	99.0	2.00	3.19	
Ethylbenzene*	< 0.050	0.050	02/27/2022	ND	1.99	99.3	2.00	2.77	
Total Xylenes*	<0.150	0.150	02/27/2022	ND	6.13	102	6.00	2.84	
Total BTEX	<0.300	0.300	02/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/26/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2022	ND	188	94.1	200	13.9	
DRO >C10-C28*	<10.0	10.0	02/28/2022	ND	164	82.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/28/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	22						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: (1801)		BILL 70	ANALYSIS REQUEST
Address:			
City:	State: Zip: Attn	pany:	
Phone #:	The second secon	Address:	
Project #:	Project Owner:		
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illvered By: (Circle One)	1 9	CHECKED BY: Turnaround Time: Standard	Bacteria Cool Int
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March 01, 2022

MICHAEL ALVES
ALVES OILFIELD SOLUTIONS
2215 W BENDER
HOBBS, NM 88240

RE: BTA - CHISO 3-4

Enclosed are the results of analyses for samples received by the laboratory on 02/28/22 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 02/28/2022
Reported: 03/01/2022
Project Name: BTA CUICO 2

Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 02/28/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SP. 2 @ 18' (H220769-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2022	ND	2.00	100	2.00	1.48	
Toluene*	<0.050	0.050	02/28/2022	ND	1.98	99.2	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/28/2022	ND	1.93	96.5	2.00	0.998	
Total Xylenes*	<0.150	0.150	02/28/2022	ND	6.00	100	6.00	0.601	
Total BTEX	<0.300	0.300	02/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/01/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	216	108	200	4.94	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	212	106	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					
Surrogate: 1-Chlorooctane	113 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	129	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 02/28/2022

03/01/2022

Reported: Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: BTA Sampling Date: 02/28/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene

Sample ID: SP. 2 @ 19' (H220769-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2022	ND	2.00	100	2.00	1.48	
Toluene*	<0.050	0.050	02/28/2022	ND	1.98	99.2	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/28/2022	ND	1.93	96.5	2.00	0.998	
Total Xylenes*	<0.150	0.150	02/28/2022	ND	6.00	100	6.00	0.601	
Total BTEX	<0.300	0.300	02/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/01/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	216	108	200	4.94	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	212	106	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					
Surrogate: 1-Chlorooctane	113	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	128	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Darrages. Cardinal's liability PLEASE NOTE: Liability and Darrages. Cardinal's liability availyses. All claims including those for negligence and an availyses. All claims including those for incidential service, in no event shall cardinal to liabile for incidential service, in no event shall cardinal to liability and liability and or related to the path affiliation of successors arising out of or related to the path affiliation of the path Relinquished By: Relinquished By: (Circle One) Delivered By: (Circle One)	Name: Location: Name: I.D. 7/69	101 East Mainten, (575) 393-2326 FAX (Company Name: 37H Project Manager: Mike Auces
ability and Darreges. Cardinal's lability and client's exclusive of including those for regligence and any other cause whatsoes including those for regligence and any other cause whatsoes a state of corresponded demange at shall continue to include to the performance of services her parts and by: Time: and By: (Circle One) ad By: (Circle One)	State: Fax #: Project Owner: CL: 20 3-4 Tolow Lews Sample I.D. SA. 20 18' R. 20 18'	101 East Mariano, (575) 393-2476 (575) 393-2326 FAX (575) 393-2476 (575) 393-2476
PLEASE NOTE: Liability and Durrages. Circlinot's liability and client's exclusive remedy for any claim nifsing whether based in control of the limited to the amount paid by the client for the analyses. All claims including those for medigence and any other cause whatevower shall be deemed wished unless made in writing addiscussed by Cardinal writing 30 days after completion of the applicable service. In no event shall cardinal to the intellet or incidental or consequented damages, including without invitations, without invitations, without invitations of state of the profession of the applicables of a state of the performance of services, hereunder by Cardinal, regardless of wish, or loss of profiles incurred by client, its substitutions. Reclinquished By: Time: Received By: Received By: Time: Sample Condition CHECKED BY: (In)Valis! CHECKED BY: (In)	GRAB OR (C)OMP. - # CONTAINERS GROUNDWATER WASTEWATER X SOIL OIL SULPGE	
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March 07, 2022

MATTHEW LONGCRIER
RX-SOIL INC.
201 MAIN STREET, SUITE 1360
FORT WORTH, TX 76102

RE: CHISO 14 STATE

Enclosed are the results of analyses for samples received by the laboratory on 03/04/22 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
MATTHEW LONGCRIER
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 03/04/2022 Reported: 03/07/2022

Project Name: CHISO 14 STATE
Project Number: NONE GIVEN
Project Location: BTA - EUNICE, NM

Sampling Date: 03/03/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B 4 (H220851-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTEX	<0.300	0.300	03/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/04/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	80.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.7	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

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		(A)
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01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: RXS0	BILL TO	ANALYSIS REDITEST
Project Manager: Mc		A RULE OF S. JACKSON
Address:	Company: 37 A	
City:	State: Zip: Attn: 30 H	
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	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	



March 14, 2022

MICHAEL ALVES
ALVES OILFIELD SOLUTIONS
2215 W BENDER
HOBBS, NM 88240

RE: BTA - CHISO 3-4

Enclosed are the results of analyses for samples received by the laboratory on 03/11/22 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported: 03/14/2022

Project Name: BTA - CHISO 3-4 Samp
Project Number: NONE GIVEN Samp

Project Location: BTA

Sampling Date: 03/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N WALL 2 (H220990-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	1.96	97.8	2.00	4.44	
Toluene*	<0.050	0.050	03/11/2022	ND	1.97	98.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	03/11/2022	ND	1.90	94.9	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	5.92	98.6	6.00	4.66	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	98.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.1	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022

Reported: 03/14/2022
Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 03/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM @ 7 (H220990-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	1.96	97.8	2.00	4.44	
Toluene*	<0.050	0.050	03/11/2022	ND	1.97	98.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	03/11/2022	ND	1.90	94.9	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	5.92	98.6	6.00	4.66	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.3	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported:

03/14/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: BTA Sampling Date: 03/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: N WALL 1 @ 9 (H220990-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	1.96	97.8	2.00	4.44	
Toluene*	<0.050	0.050	03/11/2022	ND	1.97	98.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	03/11/2022	ND	1.90	94.9	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	5.92	98.6	6.00	4.66	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	22						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported: 03/14/2022

03/14/2022

Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

BTA

Sampling Date: 03/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N BOTTOM @ 14 (H220990-04)

Project Location:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	1.96	97.8	2.00	4.44	
Toluene*	<0.050	0.050	03/11/2022	ND	1.97	98.4	2.00	5.00	
Ethylbenzene*	< 0.050	0.050	03/11/2022	ND	1.90	94.9	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	5.92	98.6	6.00	4.66	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	119	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	121	% 59.5-14	22						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022

Reported: 03/14/2022
Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 03/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S WALL @ 4 (H220990-05)

overy True Value QC RPD Qualifier .8 2.00 4.44
8 2.00 4.44
.4 2.00 5.00
.9 2.00 5.08
.6 6.00 4.66
overy True Value QC RPD Qualifier
4 400 3.92
overy True Value QC RPD Qualifier
5 200 12.8
1 200 1.33
:0

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported: 03/14/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: BTA Sampling Date: 03/10/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: W WALL @ 15-3 (H220990-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	1.96	97.8	2.00	4.44	
Toluene*	<0.050	0.050	03/11/2022	ND	1.97	98.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	03/11/2022	ND	1.90	94.9	2.00	5.08	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	5.92	98.6	6.00	4.66	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	106 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	106 9	6 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

03/11/2022 03/14/2022 Sampling Date:

03/10/2022

Soil

Reported: Project Name:

Received:

BTEX 8021B

BTA - CHISO 3-4

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Tamara Oldaker

Project Location: BTA

Sample ID: BOTTOM #2 @ 6 (H220990-07)

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	1.96	98.2	2.00	6.36	
Toluene*	<0.050	0.050	03/12/2022	ND	1.97	98.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	1.89	94.5	2.00	7.24	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	5.88	98.0	6.00	7.39	
Total BTEX	<0.300	0.300	03/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/12/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	97.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.0	% 59.5-14	2						

Analyzed By: MS

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Celey D. Keene Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported: 03/14/2022

03/14/2022 BTA - CHISO 3-4

Project Name: BTA - CHISO 3-Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 03/10/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W WALL @ 10-4 (H220990-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	1.96	98.2	2.00	6.36	
Toluene*	<0.050	0.050	03/12/2022	ND	1.97	98.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	1.89	94.5	2.00	7.24	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	5.88	98.0	6.00	7.39	
Total BTEX	<0.300	0.300	03/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	03/12/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	112 5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112 9	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 03/11/2022 Reported:

03/14/2022 Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: BTA Sampling Date: 03/10/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: W WALL @ 10-5 (H220990-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2022	ND	2.04	102	2.00	3.42	
Toluene*	<0.050	0.050	03/11/2022	ND	2.05	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	03/11/2022	ND	1.98	99.1	2.00	2.86	
Total Xylenes*	<0.150	0.150	03/11/2022	ND	6.16	103	6.00	2.49	
Total BTEX	<0.300	0.300	03/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/12/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	250	125	200	12.8	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	221	111	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					
Surrogate: 1-Chlorooctane	108 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	107 9	6 59.5-14	2						

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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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Laboratories

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager:		*	ANALYSIS	YSIS REQUEST
Address:		0		
City:	State.		3	
Phone #:		Attn: Yob	44)	
Project #:		Address:		_
Project Name:	Project Owner:	City:		
Project Location: Ch.	N	State: Zip:	9.	
	(N) 5-4	Phone #-		_
FOR LABUSE ONLY	Might home	Fax #:		
	AP.	MATRIX PRESERV.	SAMPLING	
Lab I.D.	Sample I.D. (G)RAB OR (C)OM	# CONTAINERS GROUNDWATER WASTEWATER >> SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CL TP1-	
	67		X	
< <	Batton 014	*>	3-942 915 X X X X	
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7 80 W	80+0 m #2 @ (×	× /	
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PLEASE NOTE: Liability and Dam	Damagos, Cardinais liability and client's acclusive remody for any characteristic state.	× ×	3-10-22 1:10 X X X	
service. In no event shall Cardinal affiliates or successors arising out o Relinquished By:	service. In no event shall Cardinal be liable for incidental or consequental denegate, including without implaces made in writing and received by Cardinal the lable for incidental or consequental denegate, including without implation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished By: Nelinquished By: Date:	waived unless made in writing and received by Cardinal within 30 of imitation, business interruptions, loss of use, or loss of profits incu- egardises of whether such claim is based upon any of the above s	ourn paid by the client for the lays after completion of the applicable red by client, its subsidiaries, latind reasons or orlean-law.	
Relingtished By:	Time: 1205 Rec	Received By: Manaka Allaka	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:	ne #:
	Time:		Michael Alms @ Alves of Field solutions. org	Solutions.org
	ircle One) -2.3° (-0.5° is - Other: -2.8° #1/3	Sample Condition CHECKED BY. C Cool Intact (Initials) Thes Thes		Rush! Axsail
- Salamai callin	Comminder accept verbal changes. Please fax written changes to (575) 393-2326	ritten changes to (575) 393-2326		



May 10, 2022

MICHAEL ALVES
ALVES OILFIELD SOLUTIONS
2215 W BENDER
HOBBS, NM 88240

RE: BTA - CHISO 3-4

Enclosed are the results of analyses for samples received by the laboratory on 05/09/22 12:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 05/09/2022 Reported: 05/10/2022

Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 05/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 4' (H221944-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63	
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80	
Total BTEX	<0.300	0.300	05/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2022	ND	213	107	200	10.3	
DRO >C10-C28*	<10.0	10.0	05/09/2022	ND	196	98.1	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2022	ND					
Surrogate: 1-Chlorooctane	82.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.6	% 59.5-14	2						

A ... - | - | D. .. MC\

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Celey D. Keine



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 05/09/2022 Reported: 05/10/2022

05/10/2022 BTA - CHISO 3-4 NONE GIVEN

Project Location: BTA

Sampling Date: 05/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 4' (H221944-02)

Project Name:

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63	
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80	
Total BTEX	<0.300	0.300	05/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/10/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2022	ND	213	107	200	10.3	
DRO >C10-C28*	<10.0	10.0	05/09/2022	ND	196	98.1	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2022	ND					
Surrogate: 1-Chlorooctane	98.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 05/09/2022 Reported: 05/10/2022

Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 05/09/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: COMP NORTH WEST (H221944-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63	
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80	
Total BTEX	<0.300	0.300	05/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/10/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2022	ND	213	107	200	10.3	
DRO >C10-C28*	<10.0	10.0	05/09/2022	ND	196	98.1	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2022	ND					
Surrogate: 1-Chlorooctane	85.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.7	% 59.5-14	2						

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Celey D. Keine



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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Celeg D. Freene

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(5/5) 38	(3/3) 393-2320 FAX (3/3) 393-24/0			
75	HIVES OF SOMETIONS	BILL 10	ANALTOIG REGOEGT	
Address:	1	Company: DTA		
City:	State: Zip:	Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
ame:	ta	State: Zip:		
on:	Ch.00 3-4	Phone #:		
5	the Riche Y	1		
FOR LAB USE ONLY	OMP.	MATRIX PRESERV SAMPLING		
Lab I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CL_TPH DIEX	
d5 1 1001	-	No. 19 1 66-6-5 V	4 0 0	
2 (25)	DAD HY WEST GI A	8 5-0-2 12-49 12-49-5 12-49	99	
PLEASE NOTE: Liability and Damages. analyses, All claims including those for n service. In no event shall Cardinal be lial	PLEASE NOTE: Liability and Damages, Latrana's salamy and care a browner and any one of the applicable analyses. All claims including those for negligence and any other cause whatsower shall be demand whited unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsower shall be demand whited unless made in writing and received by Cardinal within 30 days after completion of the applicable sourced by Claims, its subsidialities, services in the applicable source of the applicable and the applicable source of the applicable and the applicable source of the applicable and the applicable applicable and the applicable and the applicable and the applicable applicable applicable and the applicable applicable and the applicable applicable and the applicable applicable and the applicable applicable applicable applicable and the applicable applicable applicable applicable and the applicable applicable applicable applicable applicable and the applicable a	e in writing and received by Cardinal within 30 days after completion of the interruptions, loss of use, or loss of profits incurred by client, its subsidiaries to the hains in beand upon any of the above stated reasons or otherwise.	applicable Is,	
Relinquished By:	Date: 9-22 Received By:	7 7 7	ult: □ Yes □ No Add'l Phone #: □ Yes □ No Add'l Fax #:	3 111
Relinquished By:	Date:	Men)	Michaelahes@ alvesoil Field solutions	Suc
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.30 0.0.50	Sample Condition CHECKED BY: Cool Intact (Initials) Tyes Tyes No No	Cush"	

Page 6 of 6



June 09, 2022

MICHAEL ALVES
ALVES OILFIELD SOLUTIONS
2215 W BENDER
HOBBS, NM 88240

RE: BTA - CHISO 3-4

Enclosed are the results of analyses for samples received by the laboratory on 06/08/22 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022

Reported: 06/09/2022 Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shalyn Rodriguez

Sample ID: CS 1 (H222417-01)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.04	102	2.00	1.90	
Toluene*	<0.050	0.050	06/08/2022	ND	2.03	101	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	1.90	94.9	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	5.90	98.4	6.00	1.87	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	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	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	123 % 66.9-130		6						
Surrogate: 1-Chlorooctadecane	126	% 59.5-14	2						

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Celey D. Keene



06/07/2022

Cool & Intact

Shalyn Rodriguez

Soil

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022

Reported: 06/09/2022

Project Name: BTA - CHISO 3-4 NONE GIVEN Project Number:

Project Location: **BTA**

Sample ID: CS 2 (H222417-02)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.04	102	2.00	1.90	
Toluene*	<0.050	0.050	06/08/2022	ND	2.03	101	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	1.90	94.9	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	5.90	98.4	6.00	1.87	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 % 69.9-14		0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/08/2022	ND	448	112	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	06/09/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/09/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.8	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported:

06/09/2022 BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 3 (H222417-03)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.04	102	2.00	1.90	
Toluene*	<0.050	0.050	06/08/2022	ND	2.03	101	2.00	2.20	
Ethylbenzene*	< 0.050	0.050	06/08/2022	ND	1.90	94.9	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	5.90	98.4	6.00	1.87	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	115	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022

Reported: 06/09/2022 Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 4 (H222417-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	QM-07
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	113 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	116 9	6 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported: 06/09/2022

06/09/2022 BTA - CHISO 3-4

NONE GIVEN

Project Location: BTA

Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 5 (H222417-05)

Project Name:

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	114 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114 9	% 59.5-14	2						

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06/07/2022

Soil

Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Sampling Date: Reported: 06/09/2022 Sampling Type:

Project Name: BTA - CHISO 3-4 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **BTA**

Sample ID: CS 6 (H222417-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	118 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	119 9	6 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported:

06/09/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 7 (H222417-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	124	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported: 06/09/2022

Reported: 06/09/2022
Project Name: BTA - CHISO 3-4
Project Number: NONE GIVEN

mg/kg

Project Location: BTA

Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 8 (H222417-08)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	124 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	125 9	% 59.5-14	2						

Analyzed By: JH/

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported: 06/09/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 9 (H222417-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	123 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	125 9	6 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported:

06/09/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 10 (H222417-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	109 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	112 9	6 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported: 06/09/2022

06/09/2022 BTA - CHISO 3-4

Project Name: BTA - CHISO 3-Project Number: NONE GIVEN

Project Location: BTA

Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CS 11 (H222417-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	120	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	22						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported:

06/09/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CBS 1 (H222417-12)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	122	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	12						

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06/07/2022

Soil

Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Sampling Date:
Reported: 06/09/2022 Sampling Type:

Project Name: BTA - CHISO 3-4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: BTA

Sample ID: CBS 2 (H222417-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	115 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 9	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240

Fax To:

Received: 06/08/2022

Reported: 06/09/2022 Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CBS 3 (H222417-14)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	< 0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	122	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	22						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022

Reported: 06/09/2022 Project Name: BTA - CHISO 3-4

Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CBS 4 (H222417-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2022	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	113	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported: 06/09/2022

06/09/2022 BTA - CHISO 3-4

Project Number: NONE GIVEN Project Location: BTA

Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CBS 5 (H222417-16)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	122	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	2						

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Analytical Results For:

ALVES OILFIELD SOLUTIONS MICHAEL ALVES 2215 W BENDER HOBBS NM, 88240 Fax To:

Received: 06/08/2022 Reported:

06/09/2022

Project Name: BTA - CHISO 3-4 Project Number: NONE GIVEN

Project Location: **BTA** Sampling Date: 06/07/2022

Sampling Type: Soil

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

Sample ID: CBS 6 (H222417-17)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2022	ND	2.22	111	2.00	3.99	
Toluene*	<0.050	0.050	06/08/2022	ND	2.19	109	2.00	4.80	
Ethylbenzene*	<0.050	0.050	06/08/2022	ND	2.12	106	2.00	3.39	
Total Xylenes*	<0.150	0.150	06/08/2022	ND	6.56	109	6.00	2.85	
Total BTEX	<0.300	0.300	06/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2022	ND	201	100	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/08/2022	ND	204	102	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/08/2022	ND					
Surrogate: 1-Chlorooctane	128	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	129	% 59.5-14	22						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg & Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

company Name: Huco O	THEIR SOIL	3	BILL TO		ANALYSIS REQUEST
Project Manager: 1500 1491		P.O.	0. #:		
Address:		Col	Company: BTA		
City:	State:	Zip: Attn:	n:		
Phone #:	Fax #:	Ado	Address:		
Project #:	Project Owner:	r: City:	y:		
Project Name:			ate: Zip:		
Project Location: CINISO	N-R	ea	#		
Sampler Name: Kaylee Bich	red.	Fax #:	×#:		
FOR LAB USE ONLY	0	MATRIX	PRESERV. SAMI	SAMPLING	
Lab I.D. Sample I.D.	le I.D.	DWATER WATER	OOL		
TI HEECE		# CONTA GROUNI WASTEV SOIL OIL SLUDGE OTHER:	ACID/BA ICE / CO OTHER :	TIME C) TRHATEX	
- 03		-	Q 6	>	
is csa		610	V 617	12:24 N 0 N	
ر د د د د د د د د د د د د د د د د د د د		6	0 6/7		
255			1/9 0	12:29 1	
9 SO &			d 8/7	12:31 0, 0, 0, 0	
7 (57		=	1/9 N	15.24 X & B	
× 2		20	N 6/7	12:35 X X X	
10 65 10		0	d 6-7-22	12:37 0 5 0	
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ished I	Date: Ree	ROUN'S	A Thomas and an an Assa moder con	All Results are emailed. Please provide Email address:	Add'I Phone #: ide Email address:
telinquished By:	Date: Time:	Received By:	0	Michaelalvs@alu	Michaelalus Balussoilfied solutions org
Delivered By: (Circle One)	Observed Temp. °C 3.32	Sample Co	CHECKED BY:	Turnaround Time: Standard [Bacteria (only) Sample Condition Cool Intact Observed Temp, °C
PORM-000 R 3.2 10/07/21	Corrected Temp. °C	3.8 c Pyes Pyes		Thermometer ID #113 Correction Factor -0.5°C	□ Yes □ Yes □ No

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(010) 000-2020 170 (010) 0	70-2410			
Company Name: AIUS OI HOLDSOWHONS	7055	BILL TO		ANALYSIS REQUEST
Project Manager: 300 Hg		P.O. #:		
Address:		Company: BTA		
City: State:	Zip:	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:		City:		
Project Name:		State: Zip:		
Project Location: QNISO 3-4	ea	Phone #:		
Sampler Name: Kouly Bickil		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME CL TBH BYEX	
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CBSA	80	201	222	
085		α 6/7	12:52 d x a	
TO COS U	22	a 6/7	12:53 1 2 2	
17 685 6	8 8	× 6/7	12:38 X X X	
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Date:	0	rest	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	Add'! Phone #: vide Email address:
telinguished By: O Date:	ec.	C	Michaelalues@o	Michaelalves@alvesoilfield solutions org
	Ze Sã	CHECKED BY:	Turnaround Time: Standard Thermometer ID #113 Correction Factor -0.5°C	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Ves Yes
Sampler - UPS - Bus - Other: Corrected Temp. °C	Sec	A THE S	()	Cool Intact



Appendix E

RxSoil Field Screening Data

	Chiso 14 State	Floor Sample	S
Date	Sample ID	Depth	CL
24-Feb	B1	3FT	884
25-Feb	B1	4FT	144
28-Feb	B1	5FT	>2500
28-Feb	B1	7FT	1256
28-Feb	B1	9FT	356
24-Feb	B2	3FT	ND
28-Feb	B2	4FT	1107
28-Feb	B2	4.5 FT	252
24-Feb	В3	3FT	1090
25-Feb	B3	4FT	>2500
25-Feb	B3	5FT	1440
25-Feb	В3	6FT	ND
28-Feb	B3	18FT	clean
24-Feb	B4	3FT	1176
24-Feb	B4	4FT	1176
24-Feb	B4	5FT	ND
28-Feb	B4	7ft	>2500
24-Feb	B5	3FT	ND
28-Feb	B5	4FT	1256
28-Feb	B5	5FT	204
Ch	iso 14 State Si	de Wall Samp	les
Date	Sample ID	Depth	CL
25-Feb	S1	SW	ND
24-Feb	S2	SW	>2500
25-Feb	S2.2	SW	>2500

Received b		14/2023 9.5. Floor Sample	
Date	Sample ID	Depth	CL
24-Feb	B1	3FT	884
25-Feb	B1	4FT	144
28-Feb	B1	5FT	>2500
28-Feb	B1	7FT	1256
28-Feb	B1	9FT	356
24-Feb	B2	3FT	ND
28-Feb	B2	4FT	1107
28-Feb	B2	4.5 FT	252
24-Feb	B3	3FT	1090
25-Feb	B3	4FT	>2500
25-Feb	B3	5FT	1440
25-Feb	B3	6FT	ND
28-Feb	B3	18FT	clean
24-Feb	B4	3FT	1176
24-Feb	B4	4FT	1176
24-Feb	B4	5FT	ND
28-Feb	B4	7ft	>2500
3-Mar	B4	18ft	364
24-Feb	B5	3FT	ND
28-Feb	B5	4FT	1256
28-Feb	B5	5FT	204
2-Mar	B6	3FT	812
2-Mar	B7	3FT	1432
2-Mar	Market Control	3FT	>2500
Chis	o 14 State Si	de Wall Samp	oles
Date	Sample ID	Depth	CL
25-Feb	S1	SW	ND
24-Feb	S2	SW	>2500
25-Feb	S2.2	SW	>2500
2-Mar		SW	>2500
2-Mar		SW	>2500
Keleused to	maging: 2	2/29/2024 3:	40:03 PM





APPENDIX B

September 11, 2023, Remediation Work Plan



September 8, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe. New Mexico 87505

Re: Remediation Work Plan

Chiso 14 State Jet Pump and Excavation Incident Number nAPP2205837214

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Remediation Work Plan (RWP)* to document assessment, delineation, excavation, and soil sampling activities completed to date at the Chiso 14 State Jet Pump (Site). The purpose of the Site activities was to address impacts to soil resulting from a release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *RWP* for Incident Number nAPP2205837214, describing Site assessment, delineation, and excavation activities that have occurred to date and proposing additional delineation and excavation of residual total petroleum hydrocarbon (TPH) and chloride impacts in the immediate vicinity and underneath production equipment and flowlines to the maximum extent practicable (MEP).

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 14, Township 22 South, Range 34 East, in Lea County, New Mexico (32.38511°, -103.43594°) and is associated with oil and gas exploration and production operations on New Mexico State Land Trust managed by the New Mexico State Land Office (NMSLO).

On February 22, 2022, a plug on a jet pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an active excavation associated with a previous release. The release included approximately 165 barrels (bbls) of produced water. A vacuum truck was immediately dispatched, which recovered approximately 70 bbls of produced water. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) through the online Notice of Release (NOR) portal on February 27, 2022, and followed up on a Release Notification Form C-141 (Form C-141) on March 8, 2022. The release was assigned Incident Number nAPP2205837214.

According to a *Remediation Workplan*, prepared by Tetra Tech, Inc. (Tetra Tech) and submitted to NMOCD on May 12, 2023, the prior excavation depths ranged between 3 feet and 9 feet below ground surface (bgs). Following the February 2022 release, the previous excavation was extended to depths ranging from 3 feet to 19 feet bgs between February 28, 2022, and June 7, 2022. Following excavation activities, a 20-mil poly liner was installed over the 19-foot excavation at a depth of 13 feet bgs. Due to the presence of the jet pump, Tetra Tech proposed vertically and horizontally delineating soil around the jet pump and collecting new confirmation soil samples in the excavated area. The May 2023 *Remediation Workplan* was approved by NMOCD on June 13, 2023, and can be viewed on NMOCD's website portal.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet bgs based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-1682-POD1 South 2, located approximately 0.13-miles south-southeast of the Site. The groundwater well has a reported depth to groundwater of 42 feet bgs and a total depth of 294 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, continuously flowing or significant watercourse, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

TPH: 100 mg/kgChloride: 600 mg/kg

CULTURAL RESOURCES SURVEYS

The excavation and liner installation were initiated prior to implementation of the Cultural Properties Protection Rule on December 1, 2022. The excavation occurred less than 30 feet from the edge of the well pad disturbance area and appears to be within the clearance buffer of the original siting. No additional cultural resource surveys were completed in connection with this release.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 8 and July 24, 2023, Ensolum personnel were at the Site to oversee additional confirmation sampling and excavation activities based on previous soil analytical results, field screening and visible observations documented in Tetra Tech's *Remediation Workplan*. Excavation activities were performed utilizing a track hoe and transport vehicles. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. During excavation activities, the poly liner that was installed at 13 feet bgs was removed and is no longer present in the excavation. The excavation was completed to depths ranging from 1.5 feet to 19 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 and FS23 were collected from the floor of the excavation at depths ranging from 1.5 feet to 19 feet bgs. Confirmation soil samples SW01 and



SW22 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 19 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for all excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria except for the following floor and sidewall soil samples:

- Floor Soil Samples: FS18 and FS20 through FS23
- Sidewall Soil Samples: SW07, SW13 through SW15, SW21, and SW22

The confirmation floor and sidewall soil samples that exceeded the Closure Criteria are located within and around production equipment and pipelines on pad. Excavation of impacted soil was completed to the maximum extent practicable (MEP) without compromising the integrity of the equipment and/or pipelines as well as the safety of personnel onsite. The excavation extent and excavation soil sample locations are presented on Figure 2. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation areas measured approximately 4,462 square feet in areal extent. A total of approximately 1,195 cubic yards of impacted soil were removed during all excavation activities. The impacted soil was transported and properly disposed of at the R360 Environmental Solutions in Hobbs, New Mexico.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Since all impacted soil could not safely be excavated, areas around production equipment and pipelines needed to be fully delineated. On July 6, 2023, Ensolum returned to the Site to collect delineation soil samples. Delineation soil samples H-1 through H-6 were collected outside of the release extent, at a depth of 0.5 feet bgs, to define the lateral extent of the release. Delineation soil samples AH-1 through AH-6 were collected around the jet pump and east of the proposed deferral area to depths ranging from 1-foot to 3.5 feet bgs to define the vertical extent of impacts. All delineation soil samples were collected via hand auger and field screened for VOCs and chloride. The locations of delineation soil samples are depicted on Figure 3. Lithologic / Soil Sampling Logs are included in Appendix D describing soil encountered for each soil boring and field screening results.

Laboratory analytical results indicated all COC concentrations in lateral delineation soil samples (H-1 through H-6) were compliant with the Site Closure Criteria, confirming the lateral extent of the release to the north, east, and south of the jet pump. The chloride concentration in vertical delineation soil samples AH-2 through AH-5 exceeded the Closure Criteria at their highest field screening interval depth and terminus depths ranging from 2 feet to 3.5 feet bgs; however, advancement to greater depths was limited by refusal while utilizing a hand auger. Laboratory analytical results for vertical delineation soil sample AH-6 indicated the concentration of TPH exceeded the Closure Criteria at 2 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.



RECLAMATION PLAN

Portions of the release occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1)) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1 foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: poorly graded sand, fine to medium-grained with trace silt and clay;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: Sandy Loam (SL) seed mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The seed mixture will be distributed with etiher a push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding method(s);
- Application of the seed mixutre will be at a coverage of 10 pounds of seeds per acre of reclaimed
 pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture
 with distribution by a broadcast method;
- If necessary, erosion control management will potentially include:
 - o The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be completed upon approval of this Closure Request and prior to reseeding efforts;
- Seeding is anticipated to be completed in the Fall when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent
 with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess
 the success of regrowth. If necessary, an additional application of the NMSLO-approved pure
 live seed mixture will be applied as well as any needed BMPs will be installed to support growth
 and limit erosion;

Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.



PROPOSED REMEDIAL ACTIONS

Site assessment, excavation, and delineation activities were conducted at the Site to address impacted soil resulting from the February 2022 release of produced water into an existing excavation for an unrelated release. Excavation of impacted soil west of the jet pump and away from active production equipment and pipelines was completed to the MEP; however, residual TPH and chloride-impacted soil remains under and around projection equipment, pipelines, and the jet pump itself. Residual impacts have been defined laterally to the west through the excavation and to the north, east, and south from lateral delineation soil samples H-1 through H-6. The vertical extent of soil impacts appears to extend to depths ranging from 4 feet to 9 feet bgs. The areal extent of residual soil impacts is approximately 2,750 square feet, as depicted on Figure 4. Approximately 662 cubic yards of soil has been left in place due to the presence of the jet pump; however, the jet pump as recently been removed and as such, BTA proposes the following remedial actions:

- Complete vertical delineation in the vicinity of the jet pump to meet the Site Closure Criteria;
- Continue excavation of residually impacted soil beneath the former jet pump and to the MEP around active production equipment and lines;
- Complete confirmation sampling of the floor and sidewalls of the expanded excavation area on a frequency of every 200 square feet. Soil samples will be submitted for laboratory analysis of BTEX, TPH, and chloride; and
- Prepare a report detailing the actions described above within 90 days of receiving approval from NMOCD of this RWP.

Excavation of impacted soil has been completed to the MEP to date and supports mitigation of impacts at this Site. With the jet pump removed, BTA believes the remedial actions completed to-date and proposed in this RWP are protective of human health, the environment, and groundwater. As such, BTA respectfully requests approval of this RWP for remedial actions associated with Incident Number nAPP2205837214. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.



If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Daniel R. Moir, PG Senior Managing Geologist

cc: Kelton Beaird, BTA

New Mexico State Land Office Merchant Livestock Company Ashley L. Ager, M.S., PG

Appendices:

Figure 1 Site Receptor Map

Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

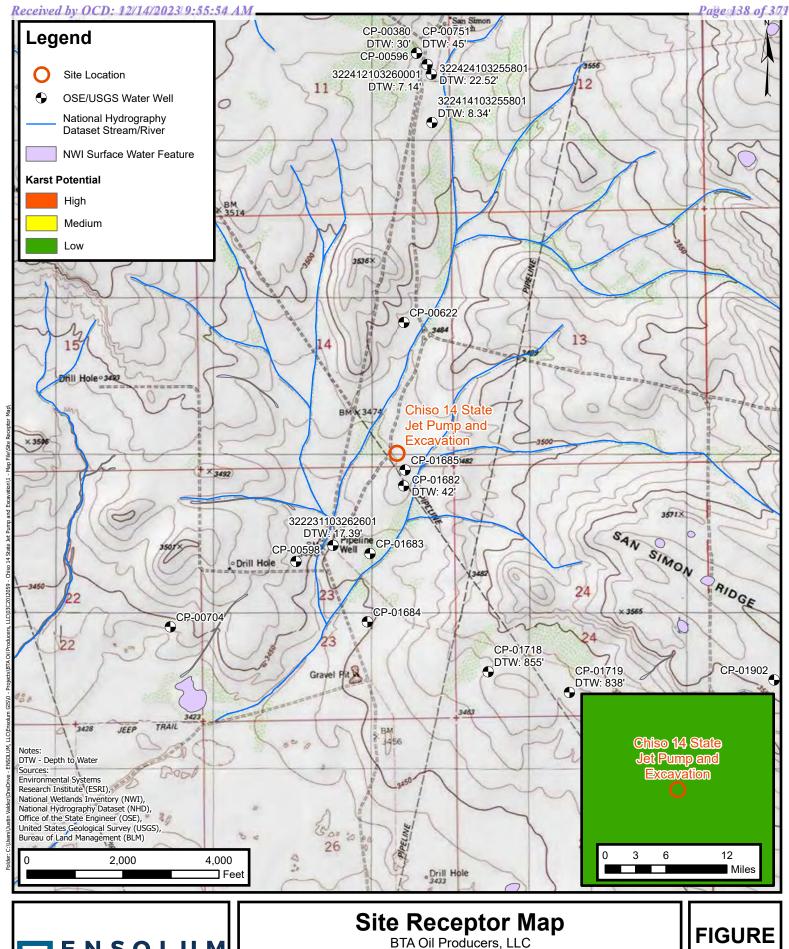
Appendix D Lithologic/Soil Sampling Logs

Appendix E NMOCD Notifications

Appendix F Final C-141



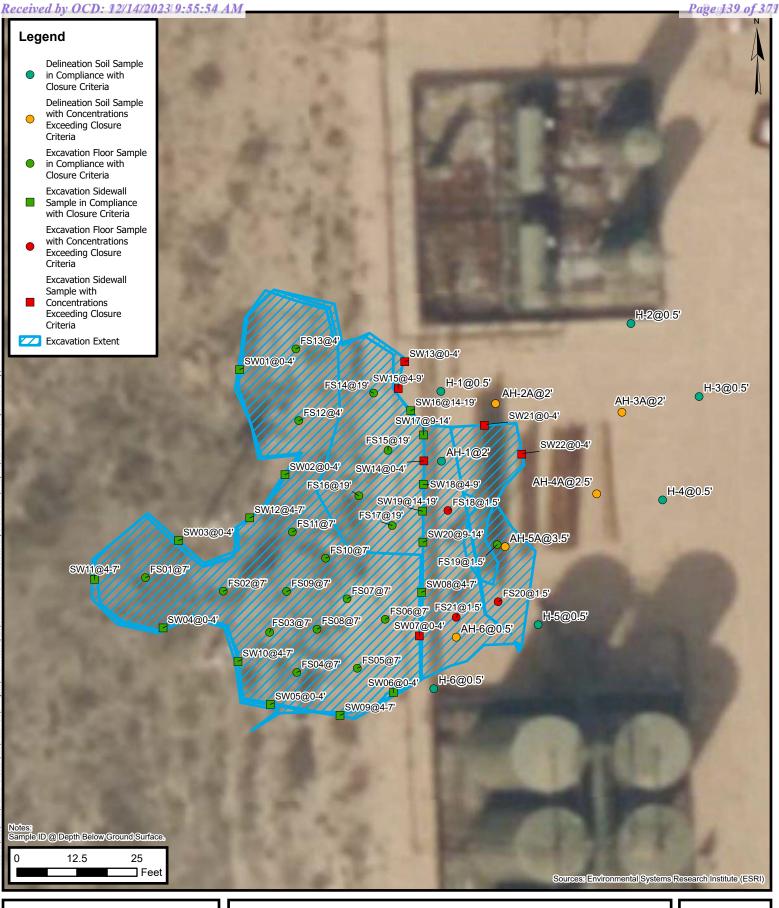
Figures





Chiso 14 State Jet Pump and Excavation Incident Number: nAPP2205837214 Unit P, Sec 14, T22S, R34E Lea County, New Mexico

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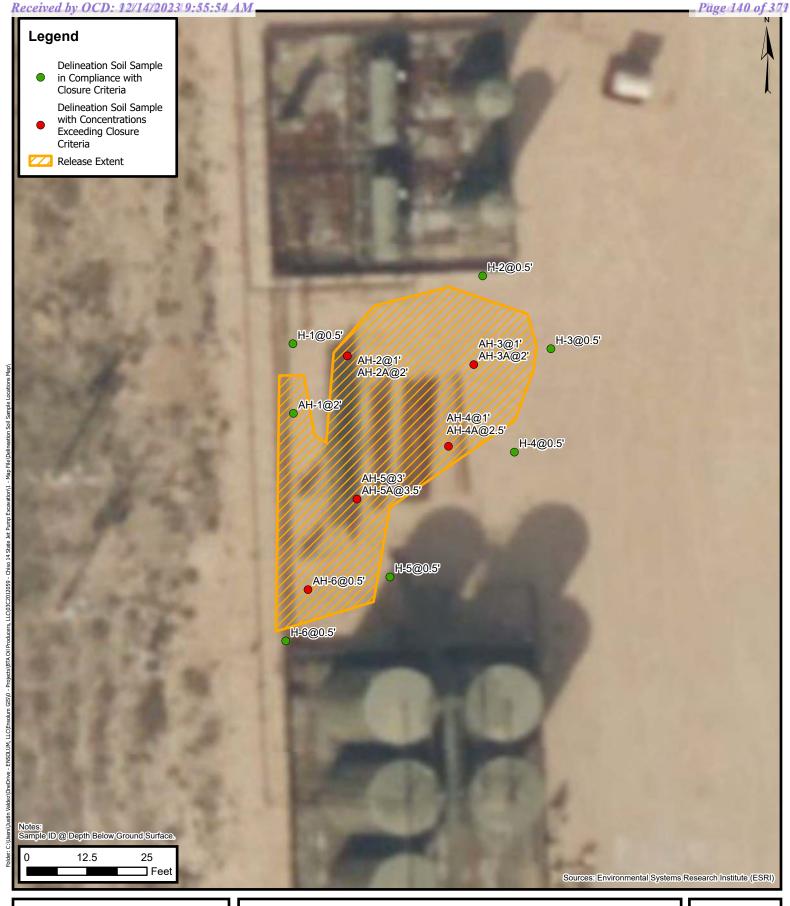




Excavation Soil Sample Locations

BTA Oil Producers, LLC
Chiso 14 State Jet Pump and Excavation
Incident Number: nAPP2205837214
Unit P, Sec 14, T22S, R34E
Lea County, New Mexico

FIGURE 2





Delineation Soil Sample Locations

BTA Oil Producers, LLC
Chiso 14 State Jet Pump Excavation
Incident Number: nAPP2205837214
Unit P, Sec 14, T22S, R34E
Lea County, New Mexico

FIGURE 4



Table

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chiso 14 State Jet Pump and Excavation BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Confi	irmation Soil Sa	amples				
FS01	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS03	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS04	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS05	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS06	06/13/2023	7	<0.050	<0.300	<10.0	860	204	860	1,064	32.0
FS06A	07/12/2023	8	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS09	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS10	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS11	06/13/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS12	06/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	06/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS14	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS16	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS17	06/13/2023	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS18	06/13/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
FS19	06/13/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	06/13/2023	1.5	<0.050	<0.300	<10.0	359	97.0	359	456	400
FS21	06/13/2023	1.5	<0.050	<0.300	<10.0	25.6	<10.0	25.6	25.6	736
FS22	07/27/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,330
FS23	07/24/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chiso 14 State Jet Pump and Excavation BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW01	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW03	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	06/13/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW07	06/12/2023	0-4	<0.050	<0.300	<10.0	176	38.6	176	215	1,340
SW08	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW09	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW10	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	06/13/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW12	06/12/2023	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW13	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120
SW14	06/12/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SW15	06/12/2023	4-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
SW16	06/12/2023	14-19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW17	06/12/2023	9-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW18	06/12/2023	4-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW19	06/12/2023	14-19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW20	06/12/2023	9-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW21	07/31/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,000
SW22	07/31/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,600

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chiso 14 State Jet Pump and Excavation BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sa	mples				
AH-1	07/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
AH-2	07/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
AH-2A	07/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
AH-3	07/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
AH-3A	07/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,080
AH-4	07/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,840
AH-4A	07/06/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
AH-5	07/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,130
AH-5A	07/06/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,560
AH-6	07/06/2023	2	<0.050	<0.300	<10.0	115	20.8	115	136	96.0
H-1	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-2	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-3	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-4	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-5	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-6	07/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Ensolum 3 of 3



APPENDIX A

Well Log Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

73110 511



	OSE POD NO	. (WELL NO	.)		WELL TAG ID NO.			OSE FILE NO	S).	•-5				
Z	CP-1682-F	POD1 So	uth 2		2062A			CP-1682						
ĭ	WELL OWN	ED NIANCE(E)						PHONE (OPTI	ONAL	<u> </u>				
.Y		1 -	Company/Glenn's	Water Wall	Samuiaa Ino			575-398-24		15				
ğ	Merchant	LIVESTOCK	Company/Greinis	water werr	Service, inc.			373-376-24	24		13			
L	WELL OWN	ER MAILING	ADDRESS					CITY		STATE >	ŽīP			
3	PO Box 6	92						Tatum		NM 8	8267			
3														
Z	WELL	į	DE	GREES	MINUTES	SECON								
Ľ	LOCATIO	N LA	TITUDE	32	22	59.6	6 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND				
≨	(FROM GP	PS)		-103	26	7.8	7 W	* DATUM REG	QUIRED: WGS 84					
GENERAL AND WELL LOCATION			NGITUDE					<u> </u>						
E	I								OWNSHJIP, RANGE) WHERE AVAILABLE					
-	NW 1/4 NE	E1/4 NE1/4	4 Section 23, Town	ship 22 Sout	h, Range 34 Eas	t on Mer	chant Liv	vestock Comp	pany Land					
	LICENSE NO		NAME OF LICENSED	DRILLER					NAME OF WELL DR					
	WD.	421			Corky Glenn				Glenn's V	Vater Well Service, I	nc.			
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF CO	MPLETED WELL (F)	r)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR:	ST ENCOUNTERED (F	r)			
	09/10)/19	09/13/19		294			294		42				
						L			STATIC WATER I EX	EL IN COMPLETED W	/E11 /ET)			
	COMPLETE	O WELL IS:	ARTESIAN	DRY HO	LE SHALLO	W (UNCON	VFINED)		STATIC WATER LEV	31	ELL (FI)			
Z			123											
۸TI	DRILLING F	LUID:	AIR	✓ MUD	ADDITIV	ES - SPEC	IFY:							
CASING INFORMATION	DRILLING M	ETHOD:	✓ ROTARY	П намме	CABLE T	OOL	ОТНЕ	R - SPECIFY:		,				
Ϋ́FC	DEPTH (feet bgl) BORE HOLE			CASING	MATERIAL AND	O/OR			CASING	CASDIO WALL				
5	FROM	то	DIAM		GRADE			ASING NECTION	INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE			
Ž	1 KOM	10	(inches)		each casing string,			YPE	(inches)	(inches)	(inches)			
CAS					sections of screen)	1		ing diameter)	<u> </u>	<u></u>				
જ	0	22.5'	20"		teel 12 3/4" OD			in End	12.25	.25				
DRILLING	0	294'	20"	<u> </u>	ing 8 5/8" / 8.625"		Pla	in End	8.125	.25	1/8"			
7				Bott	om 252 Perforated									
¥								-						
2. I														
									-					
				 		-					+			
							-				+			
			1			\longrightarrow								
				L										
	DEPTH	(feet bgl)	BORE HOLE	11	ST ANNULAR SE	EAL MAT	ERIAL A	ND	AMOUNT	METHO	OD OF			
4	FROM	ТО	DIAM. (inches)		VEL PACK SIZE-				(cubic feet)	PLACE				
R	0	22.5'	20"		Comonto	d Dadi M	i.		Fill to Top	Ton	Doug			
IE						d Redi M				Тор				
MATERIAL	0	294'	20"		3/8" Veilt	more Grav	vel		18.52 CY	Top	Pour			
A.														
Tin l														
ANNULAR		,												
3. Al			 											
۳,			1											
									L					

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)
FILE NO. CP- 1682	POD NO.	TRN NO. 632044
LOCATION 212 See 23	T225 R 34E	WELL TAG ID NO. 2062A PAGE 1 OF 2

						T
	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	Soil	Y √N	
	6	9	3	Soil & Sand	Y √N	
	9	16	7	Caliche	Y ✓N	
	16	20	4	Clay & Sand	Y ✓N	
	20	42	22	Red Clay	Y √ N	
_	42	56	14	Brown Sandrock	✓ Y N	5.00
VEL	56	63	7	Red Clay	Y ✓N	
OF V	63	68	5	White & Green Clay	Y ✓N	
90	68	92	24	Brown Sandrock	✓ Y N	9.00
ICL	92	122	30	Red Clay	Y ✓N	
903	122	128	6	Brown Shale	Y ✓N	
HYDROGEOLOGIC LOG OF WELL	128	165	37	Red Clay with Stringers of Brown Sandrock	Y ✓N	
800	165	187	22	Brown Shale	Y ✓N	1
140	187	225	38	Red Clay & Red Shale	Y ✓N	
4.	225	242	17	Brown Shale	Y ✓N	
	242	274	32	Blue Sandrock & Shale	✓ Y N	1.00
	274	294	20	Red Shale	Y VN	
					Y N	
					Y N	
					Y N	
					Y N	<u> </u>
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	7 PUMI	Р ПА	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	15.00
						
NO	WELL TES	T TEST STAR	RESULTS - ATT T TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI	CLUDING DISCHARGE ER THE TESTING PERI	METHOD, OD.
TEST; RIG SUPERVISION	MISCELLA	NEOUS INF	ORMATION:			
PER						
s SU						
; RIC						
EST	PRINT NAM	Æ(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER T	HAN LICENSEE:
5. T				Water Well Service, Inc.)		
	Travis Cici	III Electise		Trace Well Service, Me.)		
URE	CORRECT I	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL F TO DAYS AFTER COMPLETION OF WELL DRILLING:		
SIGNATURE		rh	3 A	Corky Glenn	9/17/1	g
9		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	
					LL RECORD & LOG (V	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)
FILE NO. CP - 1682	POD NO.	TRN NO. 632044
LOCATION 212 See 23 7225	R34E WE	ELL TAG ID NO. 2062 PAGE 2 OF 2



APPENDIX B

Photographic Log



Photographic Log

BTA Oil Producers, LLC
Chiso 14 State Jet Pump and Excavation
nAPP2205837214





Photograph: 1 Date: 5/24/2023

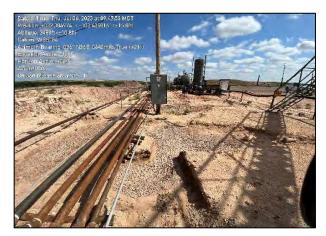
Description: Existing excavation prior to sloping

View: North

Photograph: 2 Date: 6/12/2023 Description: Soil sampling on sidewalls of excavation

View: Southeast





Photograph: 3 Date: 6/13/2023

Description: Excavation post sloping and sampling

View: North

Photograph: 4 Date: 7/6/2023

Description: Existing excavation on pad

View: North



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



July 17, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:30.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Reported: 07/17/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 3B 3' (H233555-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Project Location: BTA 32.38511-103.43594

Sample ID: AH - 4B 3.5' (H233555-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact
Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA 32.38511-103.43594

Sample ID: AH - 5B 4.5' (H233555-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Project Manager: Hadus Co	Green	P.O.#:	ANALYSIS REQUEST
City: (Arishad	State: NM Zip: 883-9-0	Attn: Keston Beard	0.
o	Fax #:	Address: 104. S. Pecas St	\$ SH
0302012-05	Project Owner:	city: Midland	
me: Chiso 14	State At Pump	State: 7x Zip: 79701	0)
1.585	Os	Phone #:	
Sampler Name: Mcreditu	P	Fax #:	
	OMP.	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEY Chlorid TPH
1 AH-38 2 AH-48	×	× 7/4/23	1045 XXX
3 AH-58	4.5′ ++	<	1015 + + +
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and imperviee. In no event shall Cardinal be liable for incidental or	PLEASE NOTE: Lability and Damages. Cardina's liability and client's exclusive remedy to any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Curdinal be liable for incidental or consequential damages, including without limitation, business miles for loss incured by client, its solidaires, service in no event shall Curdinal be liable for incidental or consequential damages, including without limitation, business much claims in consequential damages or otherwise.	act or tort; shall be limited to the amount paid by it and reversed by Cardinal within 30 days after to, so, loss of use, or loss of profits incurred by client, to, loss of use, or loss of profits incurred by client, to he show trialed reasons to be shown trialed reasons.	he client for the pplicable fix subsidiaries, or otherwise.
Relinguished By:			Verbal Result: - Yes - No Add'l Phone #: All Results are emailed. Please provide Email address: Note: Please provide E
Relinquished By:	Date: Received By:	R	(neident #: nAPP2205837214
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C 2, 8 Sample Condition Cool Intact Corrected Temp. °C 2 Yes 2 Yes	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #115 #140 Carresonn Factor Date of 1/12/25 No No Corrected Temp. °C



June 20, 2023

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 06/14/23 13:45.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sampling Type: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition:

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Soil

Sampling Condition: Cool & Intact

Sample Received By:

Shalyn Rodriguez

Sample ID: FS 01 7' (H233049-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 02 7' (H233049-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 03 7' (H233049-03)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	18						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sampling Type: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition:

Project Name: CHISO 14 STAT
Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023 Sampling Type: Soil

Sample Received By:

Cool & Intact Shalyn Rodriguez

Sample ID: FS 04 7' (H233049-04)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	18						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Samp CHISO 14 STATE JET PUMP EXCAVATION Samp

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

mg/kg

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 05 7' (H233049-05)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 06 7' (H233049-06)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	< 0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	860	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	204	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 07 7' (H233049-07)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

ma/ka

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 08 7' (H233049-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

mg/kg

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 09 7' (H233049-09)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/17/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

mg/kg

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 10 7' (H233049-10)

Project Name:

BTEX 8021B

DILX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/17/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 06/20/2023 Sampling Date: 06/13/2023

Reported: Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Type: Soil

Project Number: 03C2012059 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.38511-103.43594

Sample ID: FS 11 7' (H233049-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

ma/ka

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 12 4' (H233049-12)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

Applyzod By: MC

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06/13/2023

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 Sampling Type: Soil

Project Name: Project Number:

CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact Sample Received By: 03C2012059 Shalyn Rodriguez

Sampling Date:

Project Location: BTA 32.38511-103.43594

Sample ID: FS 13 4' (H233049-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 14 19' (H233049-14)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 15 19' (H233049-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Sampling Date: 06/13/2023
Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

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

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sample ID: FS 16 19' (H233049-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

Sampling Date: 06/13/2023 06/20/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Sampling Condition: Cool & Intact Project Number: 03C2012059 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: BTA 32.38511-103.43594

mg/kg

Sample ID: FS 17 19' (H233049-17)

BTEX 8021B

DIEX GOZID	mg/kg		Allulyzed by: 1-10						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023 Sampling Date: 06/13/2023 Sampling Type:

Project Name:

RTFY 8021R

CHISO 14 STATE JET PUMP EXCAVATION

Soil

Project Number: Project Location: 03C2012059

ma/ka

BTA 32.38511-103.43594

Sampling Condition: Cool & Intact

Sample Received By:

Shalyn Rodriguez

Sample ID: FS 18 1.5' (H233049-18)

BIEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	06/15/2023	ND	416	104	400	0.00	QM-07, QR-03
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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 19 1.5' (H233049-19)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023

Sampling Date: 06/13/2023

Reported: 06/20/2023
Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Sampling Type: Soil

Project Number: 03C2012059

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

Project Location: BTA 32.38511-103.43594

ma/ka

Sample ID: FS 20 1.5' (H233049-20)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	359	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	97.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 21 1.5' (H233049-21)

Project Name:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	< 0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	25.6	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1 - 14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 01 0-4' (H233049-22)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 02 0-4' (H233049-23)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/15/2023	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	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 03 0-4' (H233049-24)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 04 0-4' (H233049-25)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 05 0-4' (H233049-26)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 06 0-4' (H233049-27)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 07 0-4' (H233049-28)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	176	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	38.6	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	18						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 08 4-7' (H233049-29)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 09 4-7' (H233049-30)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 10 4-7' (H233049-31)

Project Name:

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 11 4-7' (H233049-32)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 12 4-7' (H233049-33)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 13 0-4' (H233049-34)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

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06/12/2023

Soil

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

Sampling Date: 06/20/2023 Sampling Type:

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012059 Shalyn Rodriguez

Project Location: BTA 32.38511-103.43594

Sample ID: SW 14 0-4' (H233049-35)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 15 4-9' (H233049-36)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sampling Type: Soil

Sampling Date:

Project Name: CHISO 14 STATE JET PUMP EXCAVATION
Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

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

06/12/2023

Sample ID: SW 16 14-19' (H233049-37)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 17 9-14' (H233049-38)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	432	108	400	0.00	QR-03
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sampling Tyl CHISO 14 STATE JET PUMP EXCAVATION Sampling Co

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 18 4-9' (H233049-39)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 19 14-19' (H233049-40)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.9 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8 9	% 49.1 - 14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 20 9-14' (H233049-41)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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S-04



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

Notes and Definitions

3-04	The surrogate recovery for this sample is outside or established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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 LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect

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Celeg D. Keene

aboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinguished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Sampler Name: City: Carisbad Project Manager: Tacoma Momissey roject Location: Project Name: Chiso roject #: Phone #: Company Name: Ensolum, LLC Address: 3122 Nat 1 FOR LAB USE ONLY Lab I.D. 337-257-8307 200 0362012059 SECO Sample I.D. Meredith (575) 393-2326 FAX (575) 393-2476 FSO2 FSOI 32.38511 FS03 FS04 FSOT FS06 FSO5 FS08 S10 FSO9 14 State Jet Pump Excavation Parks Hwy Observed Temp. "C Koberts Str Sunt Bate 11-83 -103.43594 Date: Fax #: Time: Project Owner: State: NM Depth (feet) 1,4 Zip: Received By Received By (G)RAB OR (C)OMP # CONTAINERS 88220 GROUNDWATER Cool Intact
Ly Yes | Yes
No | No Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: TX Zip: City: Phone #: P.O. # Address: | 04 S -ax #: Attn: Company: BTA O ACID/BASE PRESERV (Mittals) Midland ICE / COOL Kelton Beaind OTHER BILL 6/13/23 1235 DATE 0 SAMPLING 7970 Pecas St Verbal Result: D Yes Id No Add'l Phone #:
All Results are emalled. Please provide Email address:
Tmorriss cylensolum. com mr
ng reen ensolum. com Turnaround Time: hermometer iD #113 1250 1320 1310 1305 1300 1245 1240 315 ncident #: NAPP2205837214 TIME BTEX 4 Chlorides Standard Rush TPH ANALYSIS REQUEST Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp. PAGE moberts Gensolum co Observed Temp. °C SE U

Corrected Temp. °C

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Company Name: Ensolum IIC	1 70 (010) 000	2470					PAGE 2 OF 5
Project Manager:	500			PO# BILL TO		+	-	ANALYSIS REQUEST
Address:	-			NY: BTA	011	-		
City:		State:	Zip:	ee P	-	_		
Phone #:	+	Fax#:		-	-			
Project #: 03	0362012059	Project Owner:	er:	City:				
Project Name: Chiso	Chiso 14 State	Jet	Pump Excavation	State: Zip:				
Project Location:	32.38511	-163.43	94	Phone #:				
Sampler Name:	Meredith	Roberts		Fax #:				
FOR LAB USE ONLY			MATRIX	SERV.	SAMPLING			
Lab I.D. #733049	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / GOOL OTHER:	TIME	Chlorides	ТРН	
11	FSII	٦,	- ×	X	-	$\frac{\lambda}{\lambda}$	X	
12	FS12	4'		-		-		
2	F\$13	+			2335			
14	FS14	19'			1340			
21	FS15	_			1345			
16	FS16				1350			
17	FSIT	+			1355			
18	FS18	1.5			1315			
19	FS19				1220			
PLEASE NOTE: Liability and Da	FS20 Damages, Cardinal's liability and	client's exclusive remedy for	By and client's exclusive remody for any claim arrang whether based in contract or tort shall be limited to the amount paid by the client by the	or bort, shall be limited to the amount pair	1230	4	<	
malyses. All claims including envice. In no event shall Can filliates or successors arising	analyses. All claims including those for negligence and any observice. In no event shall Condinal be Sable for incidental or co- affiliates or successors arising out of or related to the performa	ver cause whatsoever shall be de naequental damages, including v noe of services hereunder by Cau	anidyers. All claims including from for negligence and any other cause, whattoover shall be deemed valved unless made in willing and received by Cardinal within 10 days are now in a service. In no event shall Cardinal be fashle for incidental or consequential demages, including without limitation, business interruptions, bass of use, or bass of profits incurred by client, its subsidiaries, stilled as a successors a string out of or related to the performance of services interruption reputations.	received by Cardinal within 30 days after ass of use, or last of profits incurred by o based once any of the above stated on	r completion of the app tent, its subsidiaries,	licable		
Relinguished By:	1001	Date: 14-3 3	Received By:	3.20	Verbal Result: ☐ Ye All Results are emailed.	emailed.	Please provi	IV No Add'I Phone #: Please provide Email address:
odinanished By:	X	1043	2	1		S	ee Pa	
Tomiquened by.		Time:	Necerved By:	(REMARKS:			
Delivered By: (Circle One)		Observed Temp. °C	1.4 Sample Condition	HO	Turnaround Time:		Standard	ly) s
Sampler - UPS - Bus - Other		Carrant Tama of	Type Pives	(Kinding)	Thermometer ID #113			Cool Intact Observed Temp. °C

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By Delivered By: (Circle One) analyses. All claims including service, in no event shall Card 12334° Sampler Name: City: Project Location: Project Name: Chiso Project #: Phone #: Project Manager: Company Name: Ensolum, LLC Lab I.D. Address: 2000 20000 0302012059 Sample I.D. Meredith 32.38511 (575) 393-2326 FAX (575) 393-2476 SW08 L'OMS SWOG FS21 SW05 SW04 SW03 SWO See SWOO 14 State Jet Rump CO Observed Temp. Date: 4-23 (6:14-23 Time: 345 Roberts -103.43594 Time: Project Owner: 0-4 Fax #: State: Depth 1.5 (feet) Received By: (G)RAB OR (C)OMP Zip # CONTAINERS Excavation GROUNDWATER Cool Intact Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: City: Fax #: Phone #: Address Attn: P.O. #: Company: ACID/BASE PRESERV CHECKED BY: Y(Initials) ICE / COOL OTHER See B. BILL TO 6/12/33 6/13/23 6/12/23 Zip: 113/23 DATE PS SAMPLING Turnaround Time: All Results are emailed. Please provide Email address: REMARKS: Verbal Result: 1420 1415 1205 1200 1155 1230 1440 1430 mometer ID TIME BTEX #113 □ Yes See 4 Chlorides Standard Rush 1 No TPH 30 Add'I Phone #: ANALYSIS REQUEST PAGE Observed Temp. °C CW OF

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	26	FAX (575) 393-2476	33-2476				PAGE 4 OF E
Company Name	Company Name: Ensolum, LLC			BILL TO		Δ	TOPE
Project Manager:	T. See Pa 1			_			NEWOES!
Address:	(Company: BTA O	0.7		
City:		State:	Zip:	-	2		
Phone #:	+	Fax #:		385:	0		
Project #: 02	0362012059	Project Owner:	313	City:			
roject Name:	Chiso 14 State		P Excavation	State: No:			
roject Location:	32.38	_		4			
ampler Name:	Meredith	Robert		Tart			
odnipier name:	1. icredith	Kobard		Fax#:		-	
FOR LAB USE ONLY			MATRIX	PRESERV. SAI	SAMPLING	5	
Lab I.D. †23-3049	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/GOOL OTHER:	BTEX	Chloride TPH	
3/	SWID	4-7	X	XI	-	X	
22	IIMS			5.0	35	- '	
CA CO	SWIZ	+		6/12/13	1450		
34	SW13	0-4		100	1305 ABMC		
38	SWIA	+			1330		
30	SWIS	4-9			1335		
37	SWIG	14-19			1340		
200	LIMS	9-14			1345		
70	SIMO	4-9'			1350		
EASE NOTE: Liability and Dam	SW19 Damages, Cardinal's liability and cli	ant's exclusive remedy for an	v claim arising whether based in contract	+	1355 1	*	
lyses. All claims including rice. In no event shall Caro lates or successors arising	Notes. All claims including floor for negligence and any other size. It no event shall Cardinal be fashe for incidental or const lates or successors arising out of or related to the performance.	cause whatsoever shall be d equental damages, including to discrivices hereunder by Co	ased in contra ide in writing a a interruptions finer such clair	ct or tort, shall be limited to the amount paind received by Cardinal within 30 days after, loss of use, or loss of profits, incurred by consistent of the above stated ro	i by the client for the completion of the applicable lent, its autosidiaries, sons or otherwise.		
elinquished By:	8	Date: 19-33			esult:	☐ Yes ☐ No Add	Add'l Phone #:
THE RESTREET BY	4	Sheel	mendone	The state of	and and and annual	See Pal	anan address:
amquisned by:	C	Time:	Received By:		REMARKS:	c.	
elivered By: (Circle One)	11	Observed Tamp. "C	1.4 Sample Condition	OF CHECKED BY:	Turnaround Time:		Bacteria (only) Sample Condition
Impler - UPS - Bus - Other:		ecred Tamp. "C			Thermometer ID #113	Rush	Cool Intact Observed Temp. °C
KOKW-000 K	3,2 10/07/21		t		Correction Factor -0.5°C		No No Corrected Town of

Laboratories 101 East Marland, Hobbs, NM 882

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By malyses. All claims LEASE NOTE: Liability and Delivered By: (Circle One) Sampler Name: Project Name: Chiso Project #: Phone #: Project Manager: Company Name: Ensolum, LLC roject Location: Address: Lab I.D. 0302012059 101 East Marland, Hobbs, NM 88240 Sample I.D. See Pa SW20 (575) 393-2326 FAX (575) 393-2476 Meredith 32.38511, 14 State Jet Pump Observed Temp. -103.43594 Project Owner: Fax #: Depth (feet) 9-14 010 dnal, regardess of whether such claim is based upon any of the above stated Received By: (G)RAB OR (C)OMP Zip: # CONTAINERS Excavation GROUNDWATER unless made in writing and received by Cardinal within 30 days after completion of the app WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: City: P.O. # Fax #: Phone #: Attn: Address: Company: ACID/BASE: PRESERV. CHECKED BY: X ICE / COOL (Intitials) See OTHER BILL TO VZip: 412/23 BTAO DATE SAMPLING Pa Turnaround Time: REMARKS: 1400 TIME ter ID #113 BTEX hlorides See Pg Standard Rush TPH V R ANALYSIS REQUEST Cool Intact Bacteria (only) Sample Condition PAGE Observed Temp. °C Corrected Temp. °C OF 5



July 13, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:30.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Project Location: BTA 32.38511-103.43594

Sample ID: FS 06 A 8' (H233554-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Bacteria (only) Sample Condition Cool Infact Observed Temp. *C	The state of the s	Caralla de la caracteria de la caracteri			
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salum wom moberts@ensolum.com	F 3	with menalty	Date: Received By:	ed By:	Relinquished By
II No Add'I Phone #:	Result: Yes	1011	220	SOPS	3
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TEACHER TOP MENTERS		P.O. #:	aren	2000	Addron
ANALYSIS DECEMBER	0	8/11 70			Project



July 31, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CHISO 14 STATE JET PUMP

Enclosed are the results of analyses for samples received by the laboratory on 07/24/23 12:35.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023 Reported: 07/31/2023

Project Name: CHISO 14 STATE JET PUMP

Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594)

Sampling Date: 07/24/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 22 4' (H233846-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023 Reported: 07/31/2023

CHISO 14 STATE JET PUMP

mg/kg

Project Name: Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594) Sampling Date: 07/24/2023

Sampling Type: Soil Sampling Condition: ** (See Notes)

Sample Received By: Tamara Oldaker

Sample ID: FS 23 4' (H233846-02)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

Analyzed By: MS

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Celey D. Keene



07/24/2023

Tamara Oldaker

Sampling Date:

Sample Received By:

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023

Reported: 07/31/2023 Sampling Type: Soil Project Name: CHISO 14 STATE JET PUMP Sampling Condition: ** (See Notes)

Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594)

Sample ID: SW 21 0-4' (H233846-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	< 0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023 Sampling Date: 07/24/2023 Reported: 07/31/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594)

Sample ID: SW 22 0-4' (H233846-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	< 0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



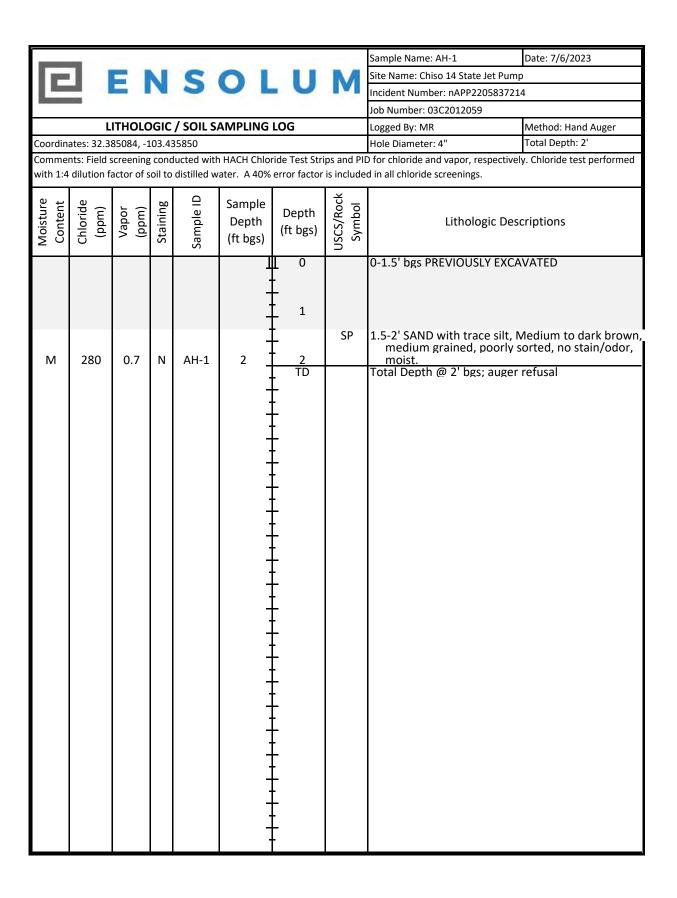
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

company Name: Ensolum		BILL TO	ANALYSIS REQUEST	
roject Manager: Hadire C	Green	P.O. #:	_	1
iddress: GOI N. Marianteld & #460	ON# X DIS	Company: BTA OT		
ity: Midland	State: TX Zip: 79 701	Attn: Kelton Be	Beauth	
hone #: 432-567-8895	5 Fax #:	-1	5 \$ +	
roject #: 0357612059	Project Owner:	city: Midland		
roject Name: Chiss 14 State Jet Punp	State Jet Punp	State: TX Zip: 7970	76	
roject Location: 32, 3851	11,-103,43594	Phone #: 432-682-3753	3753	
ampler Name: Potes Van	-	Fax #:		
FOR LAB USE ONLY		ESERV.	SAMPLING	
Lab I.D. Sam	Sample I.D. Pepth (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH BTEX Chloride	
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	A. C.			
ASE NOTE: Liability and Damages. Caudinal's liab yeas. All claims including those for negligence and co. In no event shall Cardinal be liable for incident tes or successors arising out of or related to the put.	ASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remady for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the years. All claims including those for negligence and any other cause whatsoever shall be deemed warried unless made in writing and received by Cardinal within 30 days after completion of the applicable ice. In no event shall Cardinal be lable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, after or successors arising out of or related to the performance of services here. ** "by Cardinal, Ingardless of whether such claim is based upon any of the above stands of a service stands."	sed in contract or tort, shall be limited to the amount paid an in writing and received by Cardinal within 30 days after interruptions, loss of use, or loss of profils incurred by of their such claim is based upon any of the shows are and or their such claim is based upon any of the shows are and or so	by the client for the completion of the applicable errt, its subsidiaries,	
linguished By:	ed By:		Verbal Result: I Yes I No Add'I Phone #: All Results are emailed. Piegse provide Email address: hgroome ensolver. 1000, two 1520/ Gensolver. 1000 REMARKS: Callet teng Blank 1.46	
elivered By: (Circle One) mpler - UPS - Bus - Other:	Observed Temp. °C 7 3 Sample Condition Corrected Temp. °C 1 Vos 1 Vos	CHECKED BY: (Initials)	Standard D B	
FORM-000 K 3.4 07/11/23	No No	Yo,	8 0	



APPENDIX D

Lithologic / Soil Sampling Logs



									T
100	-							Sample Name: AH-2	Date: 7/6/2023
				5		. U	M	Site Name: Chiso 14 State Jet Pun	
				9				Incident Number: nAPP22058372	14
								Job Number: 03C2012059	
	LI	THOLO	GIC /	SOIL SA	MPLING L	Logged By: MR	Method: Hand Auger		
Coordin	ates: 32.385	116, -103	3.435	813				Hole Diameter: 4"	Total Depth: 2'
Comme	nts: Field scr	eening co	onduc	cted with H	ACH Chlorid	e Test Strips	and PID f	or chloride and vapor, respectively	v. Chloride test performed
with 1:4	dilution fact	or of soi	l to di	stilled wate	er. A 40% er	ror factor is	included	n all chloride screenings.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	CS/Rock Symbol	Lithologic De	·
						0 -		0-1' CALICHE, red/ brown, prounded grains, medium moist.	grained, no stain/odor,
M	14,476	3.2	N	AH-2	1 _	1	SP	1-2' SAND with trace silt, da sorted, medium to fine g moist.	rk brown, poorly rained, no stain/odor,
М	3,589.6	1.3	N	AH-2A	2	2			
					_	TD		Total Depth @ 2' bgs; auger	refusal
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								Sample Name: AH-3	Date: 7/6/2023
			T	6	01		BA	Site Name: Chiso 14 State Jet Pum	
15			V	3		U	V	Incident Number: nAPP22058372	
								Job Number: 03C2012059	
	LIT	THOLO	GIC /	SOIL SA	MPLING L	Logged By: MR	Method: Hand Auger		
Coordina	ates: 32.3852	110, -103	.435	728				Hole Diameter: 4"	Total Depth: 2'
								or chloride and vapor, respectively n all chloride screenings.	. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					I - -	[0 -	CCHE	0-1' CALICHE, red/ brown, p rounded grains, medium moist.	ooorly sorted, sub- grained, no stain/odor,
М	2,872.8	2.6	N	AH-3	1 _	1 -	SP	1-2' SAND with trace silt, da poorly sorted, medium g moist.	ork to medium brown, rained, no stain/odor,
М	2,178.4	1.1	N	AH-3A	2	2 TD			
					-	TD		Total Depth @ 2' bgs; auger	refusal
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								Commis Names All 4	Data: 7/6/2022
								Sample Name: AH-4	Date: 7/6/2023
				5		. U	M	Site Name: Chiso 14 State Jet Pum	
								Incident Number: nAPP220583722	14
		THO! O	CIC	/ CO!! CA	NADI INIC :	Job Number: 03C2012059	NA . II I II I A		
Carrell					MPLING L	UG		Logged By: MR	Method: Hand Auger
	ates: 32.385				ACH Chi 1	o Toct Ctale	משל טוט נ	Hole Diameter: 4"	Total Depth: 2.5'
								or chloride and vapor, respectively n all chloride screenings.	Cilioriae test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
					<u>_</u>	0	CCHE	0-1' CALICHE, red/ brown, p rounded grains, medium moist.	oorly sorted, sub- grained, no stain/odor,
М	5,964	1.3	N	AH-4	1 _	1	SP	1-2' SAND with trace silt, da sorted, medium to fine g moist.	rk brown, poorly rained, no stain/odor,
М	1,036	0.3	N		-	2			
						<u> </u>		0.51.644	
М	1,215.2	0.9	N	AH-4A	2.5	TD		2.5' SAA, medium brown Total Depth @ 2.5' bgs; aug	er refusal
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								Sample Name: AH-5	Date: 7/6/2023
Œ				6	OL		RA	Site Name: Chiso 14 State Jet Pu	
				3		U	V	Incident Number: nAPP220583	7214
							Job Number: 03C2012059		
					MPLING L	OG		Logged By: MR	Method: Hand Auger
	ates: 32.3850							Hole Diameter: 4"	Total Depth: 3.5'
								or chloride and vapor, respective n all chloride screenings.	ely. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	·
					1	0		0-1.5' bgs PREVIOUSLY EX	CAVATED
					<u>-</u>	<u>-</u>			
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					_		CD CAA	4 E O EL CAND with alle also	ul language and discount of the c
					_	-	3P-3IVI	grained, poorly sorted,	ork brown, medium to fine no stain/ odor, moist.
М	11,110.4	2.3	N		_	_ 2			
					_	-	SP-SC	2.5-3.5' SAND with clay, n	nedium brown/red, fine
М	12,986.4	0.6	N	AH-5	3	3		grained, poorly sorted,	no stain/odor, moist.
					_	_			
М	2,329.60	1.5	N	AH-5A	3.5	TD		Total Depth @ 3.5' bgs; au	iger refusal
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								Sample Name: AH-6 Date: 7/6/2	2023
				-	OI		R.A	Site Name: Chiso 14 State Jet Pump	
		5 1		3	O L	. U	IV	Incident Number: nAPP2205837214	
								Job Number: 03C2012059	
	L	ITHOLO	GIC	/ SOIL S	AMPLING	Logged By: MR Method: H	and Auger		
Coordin	ates: 32.38	84983, -1	.03.43	35842				Hole Diameter: 4" Total Dept	h: 2'
		_						ofor chloride and vapor, respectively. Chloride t d in all chloride screenings.	est performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
					<u> </u>	0		0-1.5' bgs PREVIOUSLY EXCAVATED	
					- - - -	- - _ 1	SP-SC	1.5-2' SAND with clay, dark brown, fin	e grained,
М	280	26.7	N	AH-6	2	<u> </u>		poorly sorted, odorous, no stain, m	oist.
IVI	200	20.7	IN	АП-0		Z TD		Total Depth @ 2' bgs; auger refusal	
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APPENDIX E

NMOCD Correspondance

Dan Moir

From: Buchanan, Michael, EMNRD < Michael.Buchanan@emnrd.nm.gov>

Sent: Friday, June 2, 2023 11:55 PM **To:** Hadlie Green; Enviro, OCD, EMNRD

Cc: Tacoma Morrissey; Peter Van Patten; Kelton Beaird; Nathan Sirgo
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

[**EXTERNAL EMAIL**]

Received.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Hadlie Green <hgreen@ensolum.com>

Sent: Friday, June 2, 2023 9:25 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Peter Van Patten epvanpatten@ensolum.com>; Kelton Beaird

<KBeaird@btaoil.com>; Nathan Sirgo <nsirgo@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of June 5, 2023.

- Harroun East Tank Battery / nAPP2202845563
 - o Sampling Date: 6/5/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209
 - o Sampling Date: 6/6/2023 @ 9:00 AM MST
- Carrasco 14-1H / nAPP2313656375
 - o Sampling Date: 6/6/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214

o Sampling Date: 6/5/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Friday, June 9, 2023 4:22 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>

Sent: Thursday, June 8, 2023 9:14 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>; Nathan Sirgo

<nsirgo@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of June 12, 2023.

- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - Sampling Date: 6/12-13/2023 @ 9:00 AM MST
- Chiso 14 State 8711 #003H Wellhead / nAB1917652490
 - o Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Chiso 14 State 8711 Flowline / nRM2034960665

- o Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Mesa 30 31 Tank Battery / nAPP2106930621
 - o Sampling Date: 6/14/2023 @ 9:00 AM MST
- Rojo 10-13/34-37 / nAPP2313055442
 - o Sampling Date: 6/15-16/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Thursday, June 29, 2023 10:48 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023

[**EXTERNAL EMAIL**]

Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com> Sent: Thursday, June 29, 2023 8:18 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten

<pvanpatten@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023

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

ΑII,

BTA anticipates collecting confirmation samples at the following locations the week of July 3, 2023.

- Vacuum SWD H 35 Pipeline / nAPP2313058428
 - o Sampling Date: 7/5/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - o Sampling Date: 7/6/2023 @ 9:00 AM MST
- Mesa B #25 / nAPP2112744758
 - Sampling Date: 7/6-7/2023 @ 9:00 AM MST

- Mesa #16H Flowline / nAPP2123156473
 - o Sampling Date: 7/7/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, July 19, 2023 10:52 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com> Sent: Wednesday, July 19, 2023 1:36 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 24, 2023.

- Chiso 14 State Jet Pump and Excavation / nAPP2205837214
 - Sampling Date: 7/25-26/2023 @ 9:00 AM MST
- Mesa #2H Tank Battery / NRM2026945362
 - o Sampling Date: 7/27/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
 - Sampling Date: 7/28/2023 @ 9:00 AM MST

Thank you,





APPENDIX F

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2205837214
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.38511 Longitude: -103.43594

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: C	Chiso 14 St	ate Jet Pump ai	nd Excavation	Site Type: Tank Battery	1	
Date Release	Discovered:	2/26/2022		API# (if applicable) Nearest we	11:	
Unit Letter	Section	Township	Range		County]

Unit Letter	Section	Township	Range	County
Р	14	22S	34E	Lea

Surface Owner: X State T Federal Tribal P	rivate (<i>Nam</i>	e:)
---	---------------------	-----

Nature and Volume of Release

Crude Oil	(s) Released (Select all that apply and attach calculations or specific Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 165 BBL	Volume Recovered (bbls) 70 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
C CD 1		

Cause of Release

Jet Pump Failure.

A plug on the manifold of a Jet Pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an active excavation being conducted to remove previously contaminated soil. The volume of recovered water was taken from the excavation. The estimate of the volume of water released was calculated from tank gauge data (attached).

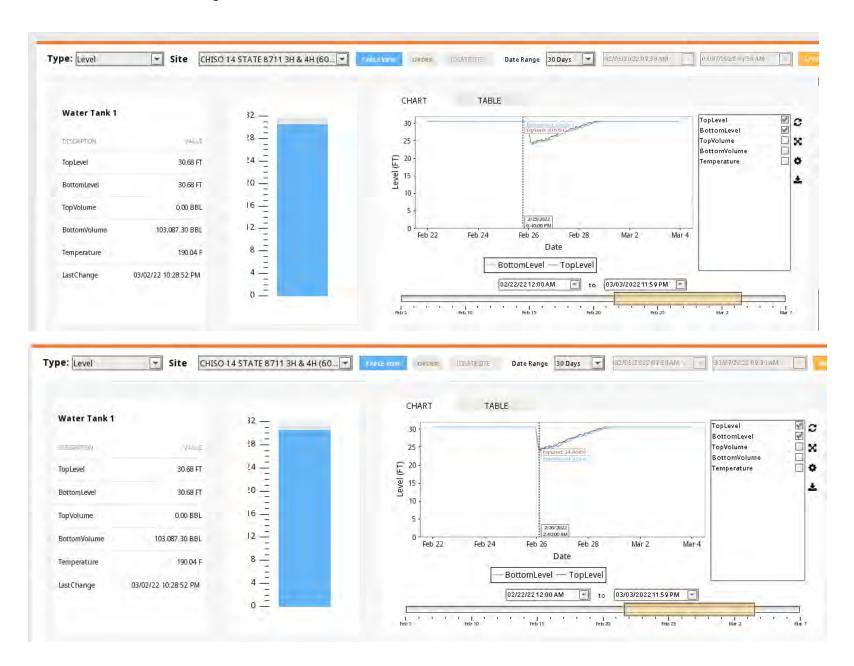
Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The volume of the release exceeds 25 BBL.
` '	The volume of the release exceeds 25 bbt.
⊠ Yes □ No	
If VFS was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	e of Release (NOR) on the NMOCD Permitting website on 2/27/2022. The Incident ID listed
	after the NOR was acknowledged by the NMOCD.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stanned
_	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
	d above have not been undertaken, explain why:
If all the actions describe	a above have not been undertaken, explain why.
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	1 a C-141 report does not reneve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Bob Hal	Title: Environmental Manager
	100
Signature: Bl	Date: 3/8/2022
email: bhall@btaoil.c	Om Talanhana, 423 693 2753
Chian. Dilanestatil.C	om Telephone: 432-682-3753
OCD Only	
Received by:	
itooorod by.	Date.

Chiso 14 State Water Tank Gauge – 2/26/2022



	Page 286 of 371
Incident ID	nAPP2205837214
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	42 (ft bgs)				
Did this release impact groundwater or surface water?	Yes X No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No				
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No				
Are the lateral extents of the release overlying a subsurface mine?	Yes X No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No				
Are the lateral extents of the release within a 100-year floodplain?	Yes X No				
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil ontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					

Ch	Characterization Report Checklist: Each of the following items must be included in the report.					
X	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.					
x	Field data					
	Data table of soil contaminant concentration data					
X	Depth to water determination					
X	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release					
	Boring or excavation logs					
	Photographs including date and GIS information					
	Topographic/Aerial maps					
	Laboratory data including chain of custody					

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

Received by OCD: 12/14/2023/9:55:54 AM
State of New Mexico
Page 4 Oil Conservation Division

Page 237 of 371

Incident ID	nAPP2205837214
District RP	
Facility ID	
Application ID	

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: Kelton Beaird	Title: Environmental Manager					
Signature:	Date: 9/6/2023					
email:KBeaird@btaoil.com	Telephone: 432-312-2203					
OCD Only						
Received by:	Date:					

Page 238 of 371

Incident ID	nAPP2205837214
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: Kelton Beaird Title: Environmental Manager Signature: Date: 9/6/2023 Environmental Manager Telephone: 432-312-2203							
OCD Only							
Received by: Shelly Wells Date: 9/11/2023							
Approved							
Signature: Nelson Velez Date: 11/17/2024							

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

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

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

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

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

CONDITIONS

Action 263757

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	263757
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Remediation plan approved as written. Remediation Due date updated to February 15, 2024 to submits its appropriate or final closure report.	11/17/2023



APPENDIX C

Photographic Log



Photographic Log

BTA Oil Producers, LLC Chiso 14 State Jet Pump Excavation nAPP2205837214





Photograph: 1 Date: 5/24/2023

Description: Existing excavation prior to sloping

View: North

Photograph: 2 Date: 6/12/2023

Description: Soil sampling of sidewalls

View: Southwest





Photograph: 3 Date: 9/1/2023

Description: Existing excavation on pad

View: Southwest

Photograph: 4 Date: 9/14/2023

Description: Delineation activities

View: East



Photographic Log

BTA Oil Producers, LLC
Chiso 14 State Jet Pump Excavation
nAPP2205837214





Photograph: 5

Date: 10/2/2023

Date: 10/3/2023

Description: Excavation activites

View: South

Description: Excavation activities

View: North

Photograph: 6





Photograph: 7

Date: 10/3/2023

Photograph: 8 Date: 10/3/2023

Description: Final excavation

Description: Final excavation

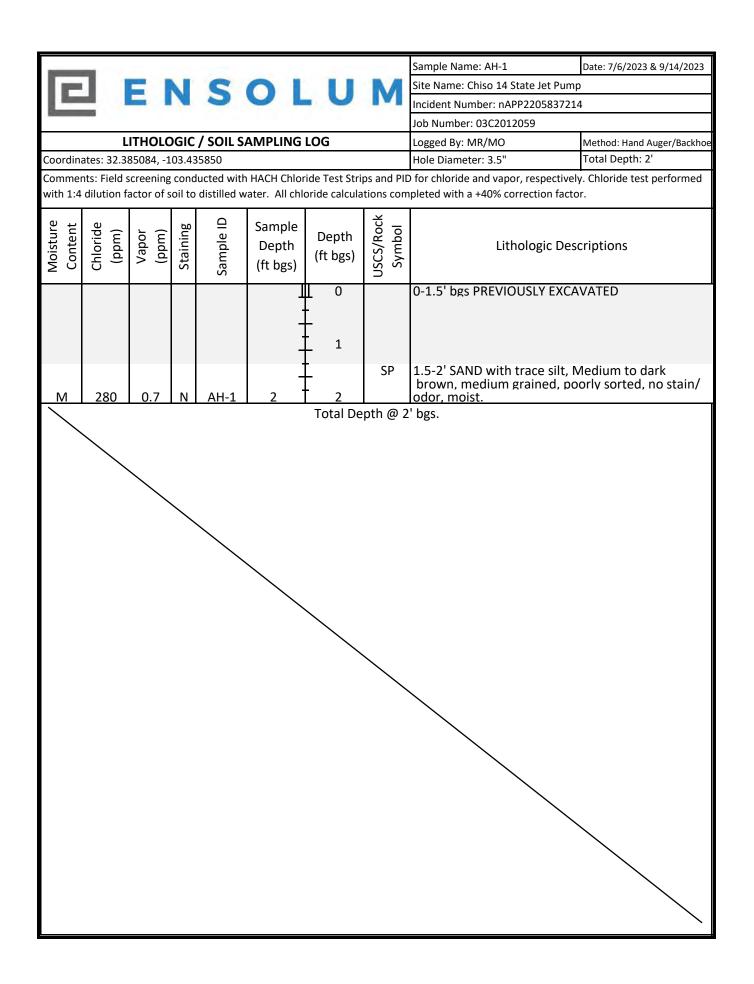
View: West

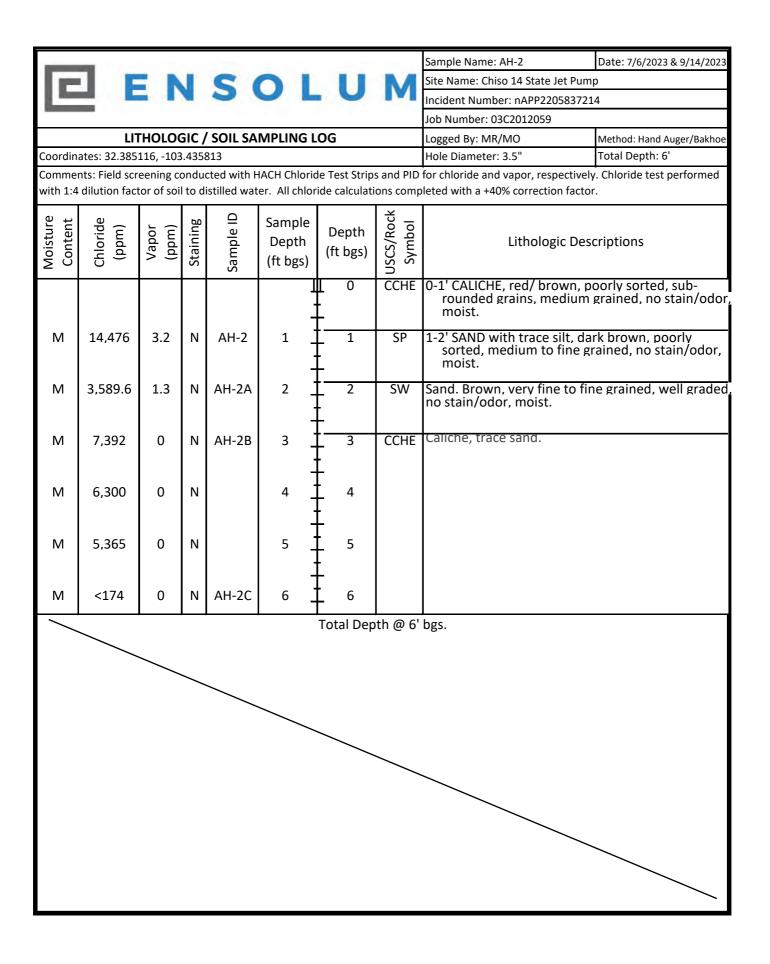
View: South

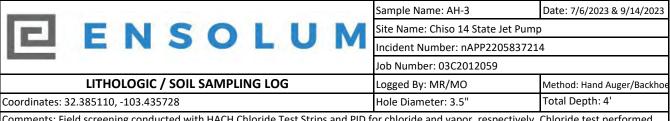


APPENDIX D

Lithologic / Soil Sampling Logs

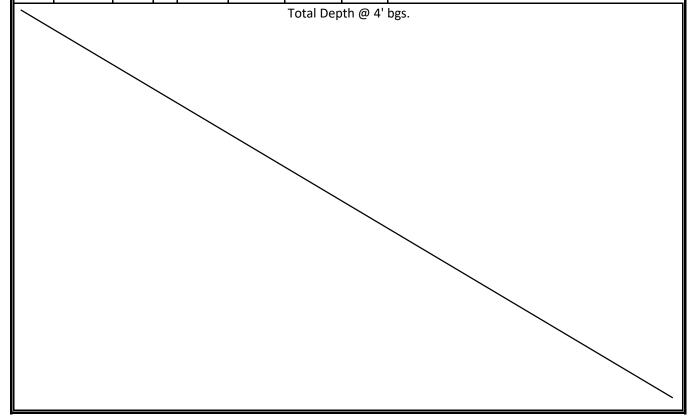


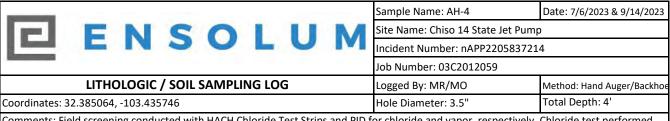




Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride calculations completed with a +40% correction factor.

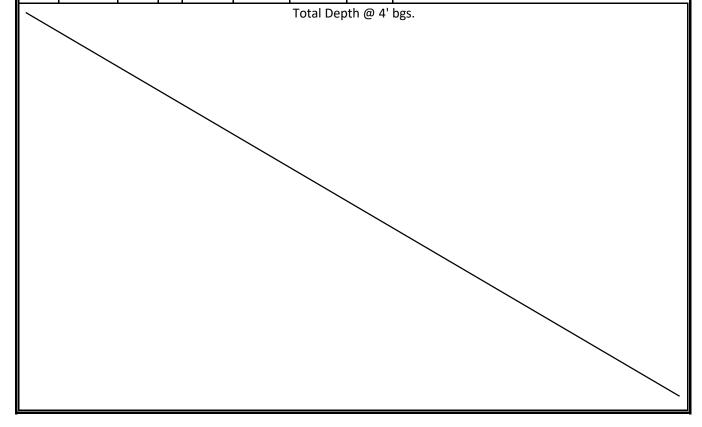
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-1' CALICHE, red/ brown, poorly sorted, sub- rounded grains, medium grained, no stain/odor, moist.
M	2,872.8	2.6	N	AH-3	1 _	1	SP	1-2' SAND with trace silt, dark to medium brown, poorly sorted, medium grained, no stain/odor, moist.
M	2,178.4	1.1	N	AH-3A	2 _	2		
M	1,176	0	N	AH-3B	3 _	3	CCHE	Calicne, trace sand. Sand, brown, very fine to fine grained, no stain/no odor, moist.
М	<174	0	М	AH-3C	4	4		

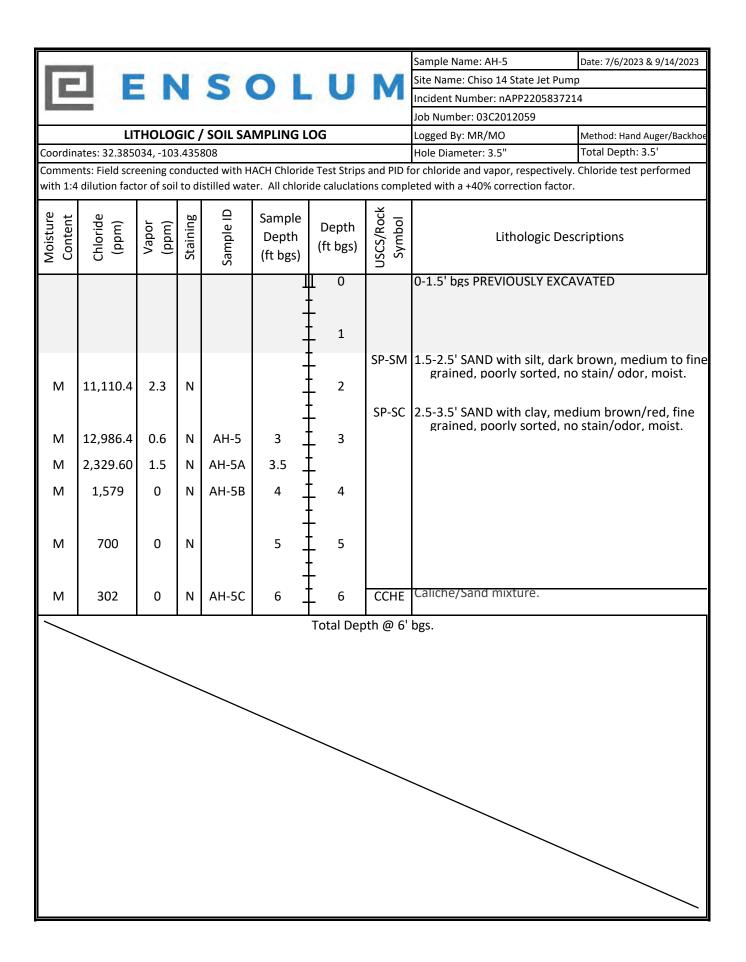


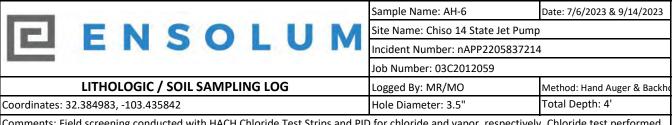


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					<u></u>	0	CCHE	0-1' CALICHE, red/ brown, poorly sorted, sub- rounded grains, medium grained, no stain/odor, moist.
M	5,964	1.3	N	AH-4	1 <u> </u>	1	SP	1-2' SAND with trace silt, dark brown, poorly sorted, medium to fine grained, no stain/odor, moist.
М	1,036	0.3	Ν		-	2		
М	1,215.2	0.9	Ν	AH-4A	2.5	 -		2.5' SAA, medium brown
М	510	0	N		3	3		
М	<174	0	N	AH-4B	4 _	4	CCHE	Caliche, trace sand.

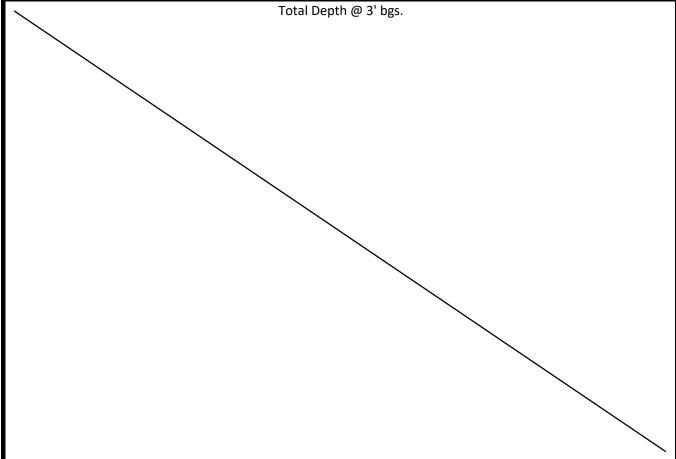






Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride calculations completed with a +40% correction factor.

Moisture	Content	Chloride	(mdd)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
							1	0		0-1.5' bgs PREVIOUSLY EXCAVATED
							- - -	1		
Ν	1	280	0	26.7	N	AH-6	2	2	SP-SC	1.5-2' SAND with clay, dark brown, fine grained, poorly sorted, odorous, no stain, moist.
Ν	1	258	8	0	N	AH-6A	3 _	3		





APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

July 17, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:30.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Project Location: BTA 32.38511-103.43594

Sample ID: AH - 3B 3' (H233555-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/13/2023	ND	416	104	400	7.41	
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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact
Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA 32.38511-103.43594

Sample ID: AH - 4B 3.5' (H233555-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact
Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA 32.38511-103.43594

Sample ID: AH - 5B 4.5' (H233555-03)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(010) 000 1010	1 100 (010) 000 200		
Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Haoliie G	Green	P.O. #:	
Address: 3122 Nati	Parks Huny	Company: BTA Oil	
city: (anshad	State: NM Zip: 8833-0	Attn: Keiton Beaind	
Phone #: 432 -557 - 8895	Fax #:	Address: 104. S. Pages St	- S¥
Project #: 0302012059	Project Owner:	city: Midland	
ime: Chiso 14	State & Pump	State: TX Zip: 79701	
~	-103,43	Phone #:	
Sampler Name: Mereditu	P	Fax #:	
\neg		PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEY Chloride TPH
1 AH-3B 2 AH-4B		7/4/23	1045 XX
3 AH-58	4.5′	+	015 + + +
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and an service. In no event shall Cardinal be liable for incidental o	d client's exclusive remedy for any cli ther cause whatsoever shall be deem onsequental damages, including with	ract or tort, shall be limited to the amount paid by th and received by Cardinal within 30 days after comp ris, loss of use, or loss of profits incurred by client, is limit has not usen any of the above stated reasons.	y the client for the normal state of the state of the applicable on the subsidiaries.
Relinguished By:	Time: 230	Wash	Verbal Result: Dyes Mo Add'l Phone #: All Results are emailed. Please provide Email address: Note: Please provide Email
Relinquished By:	Date: Received By:	RE	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C 2 8 Sample Condition Cool Intact Corrected Temp. °C 2 Yes 2 Yes	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #415- 4440 Yes Yes Thermometer ID #415- 4440 Yes Yes Thermometer ID #415- 4440 Yes Yes



June 20, 2023

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 06/14/23 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 01 7' (H233049-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 02 7' (H233049-02)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 03 7' (H233049-03)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	112 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	6 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 04 7' (H233049-04)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	< 0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	18						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

ma/ka

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 05 7' (H233049-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 06 7' (H233049-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	860	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	204	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 Sampling Type:

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Soil

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

Sample ID: FS 07 7' (H233049-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023

ma/ka

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 08 7' (H233049-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/16/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	197	98.4	200	0.977	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	178	89.0	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

mg/kg

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 09 7' (H233049-09)

Project Name:

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/17/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

Sampling Date: 06/13/2023 06/20/2023 Sampling Type: Soil

Project Name:

CHISO 14 STATE JET PUMP EXCAVATION Sampling Condition: Cool & Intact Project Number: 03C2012059 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: BTA 32.38511-103.43594

ma/ka

Sample ID: FS 10 7' (H233049-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/17/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

mg/kg

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 11 7' (H233049-11)

Project Name:

BTEX 8021B

DILX GOZID	ilig/	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

Analyzed By: MS

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

ma/ka

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 12 4' (H233049-12)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

ma/ka

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 13 4' (H233049-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 14 19' (H233049-14)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 15 19' (H233049-15)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 16 19' (H233049-16)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 Sampling Type:

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023 Soil

Sampling Condition:

Sample Received By:

Cool & Intact Shalyn Rodriguez

Sample ID: FS 17 19' (H233049-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

ma/ka

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 18 1.5' (H233049-18)

RTFY 8021R

BIEX 8021B	mg	/ kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	06/15/2023	ND	416	104	400	0.00	QM-07, QR-03
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 19 1.5' (H233049-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sam
CHISO 14 STATE JET PUMP EXCAVATION Sam

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: FS 20 1.5' (H233049-20)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	359	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	97.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023

Sampling Date: 06/13/2023

Reported: 06/20/2023 Project Name: CHISO 14 S Sampling Type: Soil

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Project Number: 03C2012059

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

Project Location: BTA 32.38511-103.43594

ma/ka

Sample ID: FS 21 1.5' (H233049-21)

RTFY 8021R

2.00 2.00 2.00 2.00 6.00	0.859 2.30 3.29 3.30	Qualifier
2.00 2.00 6.00	2.30 3.29 3.30	
2.00 6.00	3.29 3.30	
6.00	3.30	
ery True Value OC	PPN	
ery True Value OC	DDD	
erv True Value OC	PPD	
erv True Value OC	DDU	
,	INI D	Qualifier
400	0.00	
ery True Value QC	RPD	Qualifier
200	0.865	
200	2.74	
_		

Applyzod By: MC

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 01 0-4' (H233049-22)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023

Sampling Date: 06/12/2023 Soil

Project Name:

RTFY 8021R

CHISO 14 STATE JET PUMP EXCAVATION

Sampling Type: Sampling Condition:

Project Number:

03C2012059

Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.38511-103.43594

Sample ID: SW 02 0-4' (H233049-23)

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 03 0-4' (H233049-24)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 04 0-4' (H233049-25)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 05 0-4' (H233049-26)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 Sampl

Project Name: CHISO 14 STATE JET PUMP EXCAVATION Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 06 0-4' (H233049-27)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 07 0-4' (H233049-28)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	188	93.8	200	0.865	
DRO >C10-C28*	176	10.0	06/15/2023	ND	210	105	200	2.74	
EXT DRO >C28-C36	38.6	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 08 4-7' (H233049-29)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

06/14/2023 Sampling Date: 06/20/2023 Sampling Type:

Project Name: CHISO 14 STATE JET PUMP EXCAVATION
Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

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

06/12/2023

Sample ID: SW 09 4-7' (H233049-30)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.09	105	2.00	0.859	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.28	114	2.00	3.29	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.93	116	6.00	3.30	
Total BTEX	<0.300	0.300	06/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 10 4-7' (H233049-31)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/13/2023

Sampling Type: Soil

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

Sample ID: SW 11 4-7' (H233049-32)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	< 0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	< 0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	< 0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	89.1 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0 9	6 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 12 4-7' (H233049-33)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 13 0-4' (H233049-34)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 14 0-4' (H233049-35)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Project Name: Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 15 4-9' (H233049-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023 Sampling Date: 06/12/2023
Sampling Type: Soil

Project Name:

BTEX 8021B

06/20/2023 CHISO 14 STATE JET PUMP EXCAVATION

Cool & Intact

Project Number:

03C2012059

Sampling Condition: Sample Received By:

Shalyn Rodriguez

Project Location: BTA 32.38511-103.43594

Sample ID: SW 16 14-19' (H233049-37)

BIEX 9021B	mg/	ку	Allalyze	а ву: мэ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 17 9-14' (H233049-38)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	< 0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	432	108	400	0.00	QR-03
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 18 4-9' (H233049-39)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported:

06/20/2023

Project Name: CHISO 14 STATE JET PUMP EXCAVATION

Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594 Sampling Date: 06/12/2023

Sampling Type: Soil

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

Sample ID: SW 19 14-19' (H233049-40)

BTEX 8021B

	91	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2023 Reported: 06/20/2023

CHISO 14 STATE JET PUMP EXCAVATION

Project Name: CHISO 14 ST Project Number: 03C2012059

Project Location: BTA 32.38511-103.43594

Sampling Date: 06/12/2023

Sampling Type: Soil
Sampling Condition: Cool 8

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

Sample ID: SW 20 9-14' (H233049-41)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.89	94.4	2.00	23.7	
Toluene*	<0.050	0.050	06/15/2023	ND	1.99	99.4	2.00	8.79	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.09	104	2.00	3.19	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.23	104	6.00	2.82	
Total BTEX	<0.300	0.300	06/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	228	114	200	7.26	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	233	116	200	5.54	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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 LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Carisbad Project Manager: Tacoma Mom SSCH Phone #: Company Name: Ensolum, LLC 3122 Nat 1 337-257-8307 (575) 393-2326 FAX (575) 393-2476 Parks Hwy Fax #: State: NM Zip: 88220 P.O. #: Attn: Address: 104 S Company: BTA Oi Kelton Beaird BILL 70 Pecas St ANALYSIS REQUEST PAGE OF UT

The state of the s	200	and the state of t
Thermometer ID #113	Corrected Temp. C 20 Wes Ves	Sampler - UPS - Bus - Other:
CHECKED BY: Turnaround Time: Standard W Bacteria (only Indicate)	Observed Tamp. C / 4 Sample Condition	Delivered By: (Circle One)
Incident #: NAPP2205837214	Time:	
ed By:	Date: Rece	Relinquished By: ' ()
TIME 345 OVO OKUMULY thrownsssy@ensolum.com moberts@ensolum.com	2 SHE Sun	Show !!
All Results are emailed. Please provide Email address:	12 SP-11.93	5

Sampler Name: EASE NOTE: LIN roject Location: Project Name: Chiso Project #: 03C2012059 Lab I.D. FOR LAB USE ONLY 2001EN 500 Meredith Sample I.D. FSO2 FSOI 32.38511 FS03 FS04 FSO7 FS06 FSO5 FS08 FSO9 14 State Jet Pump Excavation Roberts -103.43594 Project Owner: Depth (feet) (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: TX City: Fax #: Phone #: ACID/BASE PRESERV Midland ICE / COOL OTHER Zip: 6/13/23 1235 DATE SAMPLING 7970 1250 1320 1305 1310 1300 1245 1240 315 TIME BTEX Chlondes TPH

aboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By Sampler - UPS - Bus - Other: Relinguished By Delivered By: (Circle One) City: Sampler Name: Project #: Project Name: Chiso 14 Phone #: roject Location: Project Manager: Company Name: Ensolum, LLC Address: FOR LAB USE ONLY Lab I.D. god wholen 0302012059 Meredith Sample I.D. (575) 393-2326 FAX (575) 393-2476 32.38511, FS13 FS14 FS15 FS16 FS17 FS12 See FS19 FS18 Po State Jet Observed 1163.43594 Date: 14-23 Shelmin Time: Project Owner: Fax #: State: Depth (feet) 4 0 J ٦ + cô Pump ô 20 Received By: (G)RAB OR (C)OMP Zip: 4 # CONTAINERS Excavation GROUNDWATER Cool Intact Sample Condition WASTEWATER MATRIX X SOIL OIL SLUDGE OTHER State: City: Fax #: Phone #: Address Attn: P.O. # Company: ACID/BASE PRESERV CHECKED BY: ICE / COOL See OTHER BILL TO BTA OIL 413/2 Zip: DATE GO SAMPLING Turnaround Time: All Results are emailed. Please provide Email address: REMARKS: 1325 1930 1355 1345 1330 215 1340 1350 1335 130 TIME meter ID #113 BTEX □ Yes Chlorides Standard Rush TPH W No SP Add'l Phone #: PAGE ANALYSIS Cool Intact Bacteria (only) Sample Condition REQUEST OF Observed Temp. °C U

Corrected Temp, °C

Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

Corrected Temp. °C

101 East Marland, Hobbs, NM 88240 oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Relinquished By: Delivered By: (Circle One) Relinquished By analyses. All claims including arvice. In no event shall Can 12334° Sampler Name: City: Project Location; Project Name: Chiso Project #: Phone #: Project Manager: Company Name: Ensolum, LLC Lab I.D. Address: 2000 मिन्द्र के विश्व 0302012059 Sample I.D. Meredith 32.38511 (575) 393-2326 FAX (575) 393-2476 SW08 LOMS SWOG SW05 FS21 SW04 SW03 SW0Z SWO See SWOO 14 State Jet Rump CB Observed Tamp. Roberts Time:345 -103.43594 Date: 4-23 Time: Project Owner: 0-4 Fax #: Depth State: .5 (feet) Received By: (G)RAB OR (C)OMP Zip: # CONTAINERS Excavation GROUNDWATER Cool Intact Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: City: Fax #: Attn: Phone #: Address P.O. # Company: ACID/BASE PRESERV CHECKED BY: Y(Mitials) ICE / COOL OTHER SCG B. BILL TO 613/33 6/12/23 412/33 Zip: DATE 113/13 PS SAMPLING Turnaround Time: All Results are emailed. Please provide Email address: REMARKS: Verbal Result: 1420 1415 1205 1200 1155 1230 1446 1430 mometer ID TIME BTEX #113 □ Yes See Chlorides Standard Rush 1 No TPH 3 Add'I Phone #: ANALYSIS REQUEST Bacteria (only) Sample Condition
Cool Infact Observed Temp.

| Yes | Yes | No | Corrected Temp. PAGE Observed Temp. °C CU OF

Sampler - UPS - Bus - Other:

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† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

hermometer ID #113

Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By Delivered By: (Circle One) Project Location: 32, 38511 Project Name: Chiso 14 State Sampler Name: Project #: Phone #: Project Manager: Company Name: Ensolum, LLC Address: FOR LAB USE ONLY Lab I.D. 220000 34 3 0362012059 Meredith 101 East Marland, Hobbs, NM 88240 Sample I.D. SWID (575) 393-2326 FAX (575) 393-2476 See SIMS SIMS LIMS SW14 SW15 SW13 SWI CB Observed Tamp. Roberto -163.43594 Time: 0-4 Jet 9-14 Project Owner: Fax #: 14-19 4-9 State: 4-9 4-7 Depth 14-19 (feet) Pump [0] 0 Received By Received By: (G)RAB OR (C)OMP Zip: Excavation # CONTAINERS GROUNDWATER Cool Intact Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: Fax #: City: Attn: P.O. # Phone #: Address Company: BTA Oil ACID/BASE PRESERV CHECKED BY: ICE / COOL OTHER BILL TO 8 光 /12/23 1445 DATE 133 1210 SAMPLING Po 13 1450 1325 15m2 Turnaround Time: REMARKS All Results are emailed. Please provide Email address. 1350 1340 1345 1335 1330 TIME BTEX Chlorides Standard Rush see TPH EZ No مول Add'l Phone #: ANALYSIS REQUEST Bacteria (only) Sample Condition
Cool Infact Observed Temp.

Yes Yes
No Corrected Temp. PAGE D OF SI

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By *LEASE NOTE: Liability and Delivered By: (Circle One) lalyses. All claims Sampler Name: Project Name: Chiso Project #: Phone #: Project Manager: Company Name: Ensolum, LLC roject Location: Address: Lab I.D. 0302012059 101 East Marland, Hobbs, NM 88240 Sample I.D. See Pa SW20 (575) 393-2326 FAX (575) 393-2476 Meredith 32.38511, 14 State Jet Pump Observed Temp. -103.43594 Date: 14:23 Project Owner: Fax #: 9-14 Depth (feet) 010 dinal, regardless of whether such claim is based upon any of the above stated Received By: (G)RAB OR (C)OMP Zip: # CONTAINERS Excavation GROUNDWATER unless made in writing and received by Cardinal within 30 days after completion of the app WASTEWATER MATRIX SOIL OIL SLUDGE OTHER State: City: Fax #: Phone #: P.O. # Attn: Address: Company: ACID/BASE PRESERV. CHECKED BY: ICE / COOL (Intitials) See OTHER BILL TO ¥Zip: 412/23 BTA O DATE SAMPLING Turnaround Time: REMARKS: 1400 TIME ter ID #113 BTEX Chlorides See Pg Standard Rush TPH V 3 ANALYSIS REQUEST Cool Intact Bacteria (only) Sample Condition Observed Temp. °C OF 5

Corrected Temp. °C



July 13, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CHISO 14 STATE JET PUMP EXCAVATION

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:30.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2023 07/13/2023 Sampling Date: 07/12/2023 Sampling Type:

Reported: Project Name:

CHISO 14 STATE JET PUMP EXCAVATION

Soil

Project Number:

BTEX 8021B

03C2012059

mg/kg

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: BTA 32.38511-103.43594

Sample ID: FS 06 A 8' (H233554-01)

BIEX GOEED	9/	119	Anaryzo	a 2 y . 1 . 0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Analyzed By: MS

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Refinquished By Relinquished By "LEASE NOTE: Liability and Dan byses. All claims including those for neglig fice. In no everal shall Cardinal be liable for inciroject Location: roject#: 53C2012050 Phone #: 432 . 557 . 8895 Lab I.D. Company Name: Ensolum, LLC ampier Name: roject Manager: Hadlic 3122 Nati Chisc Sample I.D. Meredith FS06A 36511 4 Parks State Observed Temp. °C Green -103.43594 Time: Date: 7-12-23 Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinalbenm.com Hwy Fax ft Project Owner: Jet Pump Depth State: 03 (feet) ∞ 800 (G)RAB OR (C)OMP Zip: # CONTAINERS Sample Condition
Cool Intagt
Wes 1 Yes
No 1 No oee83 GROUNDWATER WASTEWATER SOIL MATRIX OIL SLUDGE loss of use, or loss of profile has OTHER Fair #: Phone #: State: TX Attn: Address: 1045, Pecas Company: BTA P.O. # CHECKED BY: ACID/BASE: PRESERV. ICE / COOL Bar Kelton Midland OTHER : within 30 days efter completion of the ap-BILL TO Zip: 1/4/21 DATE unt paid by the clent for the d by client, its subsidiaries SAMPLING 79701 0 Verbal Result: (1) Yes (1) No Add'! Phone #:
All Results are emailed. Please provide Email address:
Ingreen@ensolum.Luin mrober+s@ensolum.Loin
Hanomssey@ensolum.Luin
REMARKS: furnaround Time: Incident #: nAPP22058 37214 1010 Bealind TIME 4 tor 10 #148 BTEX Chlondes TPH 3 Bacteria (only) Sample Condition
Cool Infact Observed Temp. *

| Yes | Yes |
| No | No Corrected Temp. * ANALYSIS REQUEST Corrected Temp. °C င်္ဂ



July 31, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CHISO 14 STATE JET PUMP

Enclosed are the results of analyses for samples received by the laboratory on 07/24/23 12:35.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023 Reported: 07/31/2023

Project Name: CHISO 14 STATE JET PUMP

Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594)

Sampling Date: 07/24/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 22 4' (H233846-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Analyzed By MC

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/24/2023 Reported: 07/31/2023

CHISO 14 STATE JET PUMP

Project Number: 03C2012059

Project Location: BTA (32.38511-103.43594) Sampling Date: 07/24/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes) Tamara Oldaker Sample Received By:

Sample ID: FS 23 4' (H233846-02)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

 Received:
 07/24/2023
 Sampling Date:
 07/24/2023

 Reported:
 07/31/2023
 Sampling Type:
 Soil

Project Name: CHISO 14 STATE JET PUMP Sampling Condition: ** (See Notes)
Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Project Location: BTA (32.38511-103.43594)

Sample ID: SW 21 0-4' (H233846-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

 Received:
 07/24/2023
 Sampling Date:
 07/24/2023

 Reported:
 07/31/2023
 Sampling Type:
 Soil

Project Name: CHISO 14 STATE JET PUMP Sampling Condition: ** (See Notes)
Project Number: 03C2012059 Sample Received By: Tamara Oldaker

Project Location: BTA (32.38511-103.43594)

Sample ID: SW 22 0-4' (H233846-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	07/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum	BI	BILL TO	ANALYSIS REOLIEST	
Project Manager: Hadire Green	P.O. #:			+
Address: GOI N. Marianteld & #460		74 0:1		_
city: Midlant	192 bt. 102 x	oh Beaird		_
Phone #: 432-557-8895	S Fax #:			_
Project #: 0357612059	a	20		_
Project Name: Chiss 14 State Jet Punp		State: TX Zip: 7970		
Project Location: 32, 3851		Phone #: 452-682-3753		
Sampler Name: Potes Van	Patter			_
FOR LAB USE ONLY	MATRIX	SAMPLING	es	
	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME TPH	BTEX	
2 5227	1	7-24-23 1005 X	< ×	
3 Sw21	7 -4	X 5101	× ;	
22005/4	0.4, 0	1	1	
	The Contract of the Contract o			
PLEASE NOTE: Liability and Damages, Cardinal's liability analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidental affiliates or successors arising out of or related to the per	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose limited 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 here. Are by cardinal repartless of whether service of which we such of a remaining and repartless of which are such of a remaining and repartless of which are such of a remaining and repartless of which are such of a remaining and received by Cardinal within 30 days after complete on the applicable services have been such as a remaining and remaining	he amount paid by the client for the in 30 days after completion of the application curred by client, its subsidiaries,		
Relinquished By:	Time: Time: Acceived By: Received By: Received By:		Verbal Result: 1 Yes D'No Add'I Phone #: All Results are emailed. Please provide Email address: hgrocome ensolum. Cour, two rfissey Censolum. Com REMARKS: Collet terap Blank 1.46	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 7 3 Sample Condition CHECKED BY: Cool Intact (Initials) Corrected Temp. °C Yes Yes	DBY: Turnaround Time: s) Thermometer ID #140	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Yes Yes	



November 07, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CHISO 14 STATE JET PUMP

Enclosed are the results of analyses for samples received by the laboratory on 10/03/23 16:15.

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

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP
Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

Sample	e ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 24	3'	H235385-01	Soil	02-Oct-23 13:05	03-Oct-23 16:15
FS 25	6'	H235385-02	Soil	02-Oct-23 14:30	03-Oct-23 16:15
SW 23	0-6'	H235385-03	Soil	03-Oct-23 10:45	03-Oct-23 16:15
FS 26	6'	H235385-04	Soil	03-Oct-23 10:50	03-Oct-23 16:15
FS 27	3'	H235385-05	Soil	03-Oct-23 11:25	03-Oct-23 16:15
FS 28	6'	H235385-06	Soil	03-Oct-23 12:00	03-Oct-23 16:15
SW 24	0-6'	H235385-07	Soil	03-Oct-23 11:35	03-Oct-23 16:15
SW 25	0-6'	H235385-08	Soil	03-Oct-23 11:30	03-Oct-23 16:15
FS 29	6'	H235385-09	Soil	03-Oct-23 12:05	03-Oct-23 16:15
FS 30	4'	H235385-10	Soil	03-Oct-23 12:40	03-Oct-23 16:15
FS 31	4'	H235385-11	Soil	03-Oct-23 12:45	03-Oct-23 16:15
FS 32	4'	H235385-12	Soil	03-Oct-23 14:10	03-Oct-23 16:15
FS 33	4'	H235385-13	Soil	03-Oct-23 14:15	03-Oct-23 16:15
SW 26	0-4'	H235385-14	Soil	03-Oct-23 13:00	03-Oct-23 16:15
SW 27	0-6'	H235385-15	Soil	03-Oct-23 13:05	03-Oct-23 16:15
SW 28	0-6'	H235385-16	Soil	03-Oct-23 14:20	03-Oct-23 16:15
SW 29	0-6'	H235385-17	Soil	03-Oct-23 14:25	03-Oct-23 16:15

11/07/23 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 10/04/23.

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 24 3' H235385-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	400		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100339	JН	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.9 %	71.5	-134	3100339	JH	04-Oct-23	8021B	
Petroleum Hydrocarbons by G	SC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			109 %	48.2	-134	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			142 %	49.1	-148	3100340	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 25 6' H235385-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		108 %	71.5	-134	3100339	ЈН	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			129 %	49.1	-148	3100340	MS	04-Oct-23	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 23 0-6' H235385-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds h	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100339	JН	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	3100339	ЈН	04-Oct-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			86.2 %	48.2	-134	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			94.2 %	49.1	-148	3100340	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 26 6' H235385-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100339	JH	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		102 %	71.5	-134	3100339	ЈН	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	3100340	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			147 %	49.1	-148	3100340	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 27 3' H235385-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 28 H235385-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		106 %	71.5-134		3100343	MS	04-Oct-23	8021B		
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			110 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 24 0-6' H235385-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		103 %	71.5-134		3100343	MS	04-Oct-23	8021B		
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane		108 %	48.2-134		3100344	MS	04-Oct-23	8015B		
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 25 0-6' H235385-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		103 %	71.5	i-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			116 %	48.2	2-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 29 H235385-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		107 %	71.5	i-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	2-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 30 4' H235385-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	tories					
Inorganic Compounds										
Chloride	288		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	71.5	i-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	2-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 31 H235385-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		105 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 32 4' H235385-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		105 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

FS 33 H235385-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3100419	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		104 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			92.6 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			95.5 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 26 0-4' H235385-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3100421	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 27 0-6' H235385-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3100421	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		105 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			108 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 28 0-6' H235385-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3100421	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds h	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: CHISO 14 STATE JET PUMP

Project Number: 03C2012059 (32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

SW 29 0-6' H235385-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3100421	AC	04-Oct-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100343	MS	04-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5	-134	3100343	MS	04-Oct-23	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	3100344	MS	04-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	3100344	MS	04-Oct-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100419 - 1:4 DI Water										
Blank (3100419-BLK1)				Prepared &	Analyzed:	04-Oct-23				
Chloride	ND	16.0	mg/kg							
LCS (3100419-BS1)				Prepared &	Analyzed:	04-Oct-23				
Chloride	432	16.0	mg/kg	400	·	108	80-120	·	·	·
LCS Dup (3100419-BSD1)				Prepared &	Analyzed:	04-Oct-23				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 3100421 - 1:4 DI Water										
Blank (3100421-BLK1)				Prepared &	: Analyzed:	04-Oct-23				
Chloride	ND	16.0	mg/kg							
LCS (3100421-BS1)				Prepared &	Analyzed:	04-Oct-23				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3100421-BSD1)				Prepared &	: Analyzed:	04-Oct-23				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Benzene

Toluene

Ethylbenzene

Total Xylenes

Total BTEX

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100339 - Volatiles										
Blank (3100339-BLK1)				Prepared &	Analyzed:	03-Oct-23				

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

0.050

0.050

0.050

0.150

0.300

Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500	109	71.5-134
LCS (3100339-BS1)				Prepared & Ana	lyzed: 03-Oct-23	
Benzene	1.99	0.050	mg/kg	2.00	99.4	82.8-130
Toluene	1.93	0.050	mg/kg	2.00	96.7	86-128
Ethylbenzene	2.03	0.050	mg/kg	2.00	102	85.9-128
m,p-Xylene	4.07	0.100	mg/kg	4.00	102	89-129
o-Xylene	2.06	0.050	mg/kg	2.00	103	86.1-125
Total Xylenes	6.13	0.150	mg/kg	6.00	102	88.2-128

Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500	105	71.5-134		
LCS Dup (3100339-BSD1)				Prepared & Analyzed: 03	-Oct-23			
Benzene	2.08	0.050	mg/kg	2.00	104	82.8-130	4.34	15.8
Toluene	2.13	0.050	mg/kg	2.00	106	86-128	9.52	15.9
Ethylbenzene	2.26	0.050	mg/kg	2.00	113	85.9-128	10.6	16
m,p-Xylene	4.55	0.100	mg/kg	4.00	114	89-129	11.2	16.2
o-Xylene	2.28	0.050	mg/kg	2.00	114	86.1-125	10.2	16.7
Total Xylenes	6.84	0.150	mg/kg	6.00	114	88.2-128	10.8	16.3

71.5-134 Surrogate: 4-Bromofluorobenzene (PID) 0.0544 0.0500 109 mg/kg

ND

ND

ND

ND

ND

Batch 3100343 - Volatiles

Blank (3100343-BLK1)			Prepared & Analyzed: 03-Oct-23
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

Spike

0.0500

100

71.5-134

Source

(32.3850755-103

Reported: 07-Nov-23 16:45

RPD

Project Manager: HADLIE GREEN

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0501

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3100343 - Volatiles										
Blank (3100343-BLK1)				Prepared &	: Analyzed:	03-Oct-23				
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			
LCS (3100343-BS1)				Prepared &	Analyzed:	03-Oct-23				
Benzene	1.98	0.050	mg/kg	2.00		98.9	82.8-130			
Toluene	1.99	0.050	mg/kg	2.00		99.7	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.4	85.9-128			
m,p-Xylene	3.96	0.100	mg/kg	4.00		99.1	89-129			
o-Xylene	1.88	0.050	mg/kg	2.00		93.9	86.1-125			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.5	71.5-134			
LCS Dup (3100343-BSD1)				Prepared &	: Analyzed:	03-Oct-23				
Benzene	1.98	0.050	mg/kg	2.00		99.2	82.8-130	0.364	15.8	
Toluene	2.03	0.050	mg/kg	2.00		101	86-128	1.70	15.9	
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.2	85.9-128	0.877	16	
m,p-Xylene	3.96	0.100	mg/kg	4.00		99.0	89-129	0.0685	16.2	
o-Xylene	1.87	0.050	mg/kg	2.00		93.6	86.1-125	0.381	16.7	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	88.2-128	0.169	16.3	

mg/kg

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Celey D. Keene

Surrogate: 4-Bromofluorobenzene (PID)



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

(32.3850755-103

Reported: 07-Nov-23 16:45

Project Manager: HADLIE GREEN

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100340 - General Prep - Organics										
Blank (3100340-BLK1)				Prepared &	z Analyzed:	03-Oct-23	i			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	75.6		mg/kg	50.0		151	49.1-148			S-04
LCS (3100340-BS1)				Prepared &	z Analyzed:	03-Oct-23	i			
GRO C6-C10	205	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118			
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.6-123			
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0		121	48.2-134			
Surrogate: 1-Chlorooctadecane	73.8		mg/kg	50.0		148	49.1-148			
LCS Dup (3100340-BSD1)				Prepared &	Analyzed:	03-Oct-23	i			
GRO C6-C10	194	10.0	mg/kg	200		96.8	66.4-123	5.69	17.7	
DRO >C10-C28	201	10.0	mg/kg	200		101	66.5-118	8.08	21	
Total TPH C6-C28	395	10.0	mg/kg	400		98.7	77.6-123	6.92	18.5	
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	76.8		mg/kg	50.0		154	49.1-148			S-04
Batch 3100344 - General Prep - Organics										
Blank (3100344-BLK1)				Prepared: ()3-Oct-23 A	nalyzed: 0	4-Oct-23			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	49.1-148			

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%REC

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705

Project: CHISO 14 STATE JET PUMP Project Number: 03C2012059

Spike

Source

(32.3850755-103

Reported: 07-Nov-23 16:45

RPD

Project Manager: HADLIE GREEN

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3100344 - General Prep - Organics										
LCS (3100344-BS1)				Prepared: ()3-Oct-23 A	nalyzed: 0	4-Oct-23			
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.3	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	49.1-148			
LCS Dup (3100344-BSD1)				Prepared: ()3-Oct-23 A	nalyzed: 0	4-Oct-23			
GRO C6-C10	201	10.0	mg/kg	200		100	66.4-123	1.65	17.7	
DRO >C10-C28	201	10.0	mg/kg	200		101	66.5-118	1.19	21	
Total TPH C6-C28	402	10.0	mg/kg	400		100	77.6-123	0.240	18.5	
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	57.7		mg/kg	50.0		115	49.1-148			

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 25 of 27

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager:	LI ZALIO			BILL TO	0		ANALYSIS REQUEST
Address: (00)	7	2000		P.O.#:			
N.	· NITE	4	400	Company: BTA (011		
1137	CINO	State: TX	Zip: 79701	ARTIN: Kelton B	eaird		
770	300	5 Fax#:		Address: 104 S D	Perosist -		
Project #:U5CZU	12050	Project Owner:	n	diano	Con So.		
Project Name: (DISO	te Jet Pum	np Excavation	TX Zip:	19701		
Project Location:	32.3850	155 - 103. 1	4358097	外			
Sampler Name:	Mariaha	O'Dell		Fax #:			
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*			S ER		de		
Lab I.D.	Sample I.D.	Depth (feet)	OR (C)O AINERS DWATE NATER		lovi	H EX	
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5	A	کار		X 1013/2	10	XX	
6	FS 25 25	0	C 1 V	57CM	17	×	
7	FR ZOMS	0-10"			X 00 77	×	
9	SWOOS	0-10'	>	Sector	11:35 X	XX	
9	FSOND 29	10"	7 1 X	V 1007	X	X	
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M. O. 100	M	323	> > >		Verbal Result: 1 Yes All Results are emailed.	77	☐ No AddTPhone #; Please provide Email address;
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ampler - UPS - Bus - Other	- Other: Con	rected Temp. *C			Chi KS/U +Z	40 Rush	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

☐ No Corrected Temp. *C	Correction Factor 6.5 TH 40	e CA	LI No I No	+ Cardinal car	12//0/01 7:5	N DOOR-WHO I
Bacteria (only) Sa	Thermometer In #443 - Rush	(Initials)	Cool Intact	octed Tomp.	Bus - Other: C.	Sampler - UPS - Bu
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Add'l Phone #:	Verbal Result: Yes No All Results are emailed Picase or		Received By:	Date: 3/23	11/45	Manaman Manaman
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ANALYSIS REQUEST	70	BILL TO			DIOCH	Drainot Manual
			1		a: Emplim IIO	Company Nam



APPENDIX F

Reclamation Plan

BTA Oil Producers, LLC Remediation Work Plan Chiso 14 State Jet Pump and Excavation

RECLAMATION PLAN

Portions of the release occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1)) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1 foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: poorly graded sand, fine to medium-grained with trace silt and clay;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: Sandy Loam (SL) seed mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The seed mixture will be distributed with etiher a push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding method(s);
- Application of the seed mixutre will be at a coverage of 10 pounds of seeds per acre of reclaimed
 pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture
 with distribution by a broadcast method;
- If necessary, erosion control management will potentially include:
 - o The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be completed upon approval of this Closure Request and prior to reseeding efforts;
- Seeding is anticipated to be completed in the Fall when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent
 with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess
 the success of regrowth. If necessary, an additional application of the NMSLO-approved pure
 live seed mixture will be applied as well as any needed BMPs will be installed to support growth
 and limit erosion;

Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.





APPENDIX G

NMOCD Correspondence

Dan Moir

From: Buchanan, Michael, EMNRD < Michael.Buchanan@emnrd.nm.gov>

Sent: Friday, June 2, 2023 11:55 PM **To:** Hadlie Green; Enviro, OCD, EMNRD

Cc: Tacoma Morrissey; Peter Van Patten; Kelton Beaird; Nathan Sirgo
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

[**EXTERNAL EMAIL**]

Received.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Hadlie Green <hgreen@ensolum.com>

Sent: Friday, June 2, 2023 9:25 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>; Kelton Beaird

<KBeaird@btaoil.com>; Nathan Sirgo <nsirgo@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of June 5, 2023.

- Harroun East Tank Battery / nAPP2202845563
 - o Sampling Date: 6/5/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209
 - Sampling Date: 6/6/2023 @ 9:00 AM MST
- Carrasco 14-1H / nAPP2313656375
 - o Sampling Date: 6/6/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214

o Sampling Date: 6/5/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Friday, June 9, 2023 4:22 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com

Sent: Thursday, June 8, 2023 9:14 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>; Nathan Sirgo

<nsirgo@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023

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

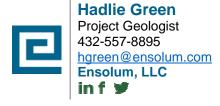
All,

BTA anticipates collecting confirmation samples at the following locations the week of June 12, 2023.

- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - o Sampling Date: 6/12-13/2023 @ 9:00 AM MST
- Chiso 14 State 8711 #003H Wellhead / nAB1917652490
 - o Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Chiso 14 State 8711 Flowline / nRM2034960665

- o Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Mesa 30 31 Tank Battery / nAPP2106930621
 - o Sampling Date: 6/14/2023 @ 9:00 AM MST
- Rojo 10-13/34-37 / nAPP2313055442
 - o Sampling Date: 6/15-16/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Thursday, June 29, 2023 10:48 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023

[**EXTERNAL EMAIL**]

Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com

Sent: Thursday, June 29, 2023 8:18 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten

<pvanpatten@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023

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

ΑII,

BTA anticipates collecting confirmation samples at the following locations the week of July 3, 2023.

- Vacuum SWD H 35 Pipeline / nAPP2313058428
 - Sampling Date: 7/5/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - o Sampling Date: 7/6/2023 @ 9:00 AM MST
- Mesa B #25 / nAPP2112744758
 - o Sampling Date: 7/6-7/2023 @ 9:00 AM MST

- Mesa #16H Flowline / nAPP2123156473
 - o Sampling Date: 7/7/2023 @ 9:00 AM MST

Thank you,



Dan Moir

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, July 19, 2023 10:52 PM

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green hgreen@ensolum.com>
Sent: Wednesday, July 19, 2023 1:36 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 24, 2023.

- Chiso 14 State Jet Pump and Excavation / nAPP2205837214
 - Sampling Date: 7/25-26/2023 @ 9:00 AM MST
- Mesa #2H Tank Battery / NRM2026945362
 - Sampling Date: 7/27/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
 - o Sampling Date: 7/28/2023 @ 9:00 AM MST

Thank you,





APPENDIX H

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2205837214
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.38511 Longitude: -103.43594

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: C	Chiso 14 Sta	ate Jet Pump a	nd Excavation	Site Type: Tank Battery			
Date Release	Discovered:	2/26/2022		API# (if applicable) Nearest well:			
Unit Letter	Section	Township	Range	County			

ı	Unit Letter	Section	Township	Range	County
	Р	14	22S	34E	Lea

Surface Owner:	State	☐ Federal	☐ Tribal	X Private (<i>Name:</i>)	Merchant Livestock Company
----------------	-------	-----------	----------	----------------------------	----------------------------

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water 165 BBL **70 BBL** Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the ⊠ Yes □ No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) ☐ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Other (describe)

Cause of Release

Jet Pump Failure.

A plug on the manifold of a Jet Pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an active excavation being conducted to remove previously contaminated soil. The volume of recovered water was taken from the excavation. The estimate of the volume of water released was calculated from tank gauge data (attached).

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2205837214
District RP	
Facility ID	fAPP2129434580
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?		
release as defined by 19.15.29.7(A) NMAC?	The volume of the release exceeds 25 BBL.		
	The volume of the release exceeds 25 bbs.		
Yes □ No			
If YES was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
· ·	of Release (NOR) on the NMOCD Permitting website on 2/27/2022. The Incident ID listed		
above was assigned a	after the NOR was acknowledged by the NMOCD.		
	Initial Response		
The responsible	A		
The responsible [party must undertake the following actions immediately unless they could create a safety hazard that would result in injury		
The source of the rele	ease has been stopped.		
_	s been secured to protect human health and the environment.		
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
	ecoverable materials have been removed and managed appropriately.		
	d above have <u>not</u> been undertaken, explain why:		
II all the deticins deserted	a doo't have <u>not</u> soon and tanton, or plant why		
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the infor	rmation 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: Bob Hall	Title: Environmental Manager		
	100		
Signature: Bl	Date: 3/8/2022		
email: bhall@btaoil.co	om Telephone: 432-682-3753		
	200-p.10.10. 10.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		
OCD Only			
_	Dotos		
Received by:	Date:		

Received by OCD: 12/14/2023 9:55:54 AM Form C-141 State of New Mexico Oil Conservation Division

	Page 357 of 37	71
Incident ID	nAPP2205837214	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

(ft bgs) Yes ⊠ No Yes ⊠ No Yes ⊠ No			
Yes 🛛 No			
res⊠ No			
Yes⊠ No			
Yes 🛛 No			
Yes ⊠ No			
Yes 🛛 No			
Yes No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps 			
Y Y Y Y			

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.

□ Laboratory data including chain of custody

Received by OCD: 12/14/2023 9:55:54 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2205837214
District RP	
Facility ID	
Application ID	

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:Kelton Beaird	Title:Environmental Manager		
Signature: All Signature	Date:12/1/2023		
email:KBeaird@btaoil.com	Telephone:432-312-2203		
OCD Only			
Received by:	Date:		

Page 359 of 371

Incident ID	nAPP2205837214
District RP	
Facility ID	
Application ID	

Closure

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

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the conductor accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:Kelton_Beaird	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in	
Signature:	Date:12/1/2023	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by:	Date:	
	Tliability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	



December 1, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Chiso 14 State Jet Pump and Excavation Incident Number nAPP2205837214 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, excavation, and soil sampling activities performed at the Chiso 14 State Jet Pump (Site). The purpose of the Site activities was to address impacts to soil resulting from a release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request* describing Site assessment, delineation, and excavation activities that have occurred and requesting closure for Incident Number nAPP2205837214.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 14, Township 22 South, Range 34 East, in Lea County, New Mexico (32.38511°, -103.43594°) and is associated with oil and gas exploration and production operations on private land owned by Merchant Livestock Company.

On February 26, 2022, a plug on a jet pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an open excavation associated with a previous release. Approximately 165 barrels (bbls) of produced water were released. A vacuum truck was immediately dispatched to the Site and recovered approximately 70 bbls of produced water from the open excavation. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) through the online Notice of Release (NOR) portal on February 27, 2022, and submitted a Release Notification Form C-141 (Form C-141) on March 8, 2022. The release was assigned Incident Number nAPP2205837214.

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

BTA Oil Producers, LLC Closure Request Chiso 14 State Jet Pump and Excavation

Total Petroleum Hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

According to a *Remediation Workplan*, prepared by Tetra Tech, Inc. (Tetra Tech) and submitted to NMOCD on May 12, 2023, the depth of the open excavation affected by the February 2022 release ranged between 3 feet and 9 feet below ground surface (bgs). Following the February 2022 release, the excavation was extended to depths ranging from 3 feet to 19 feet bgs between February 28, 2022, and June 7, 2022. Following excavation activities, a 20-mil poly liner was installed within the open excavation at a depth of 19 feet bgs. Due to the presence of the jet pump, Tetra Tech proposed vertical and horizontal delineation of the soil around the jet pump and collection of new confirmation soil samples in the excavated area. The May 2023 *Remediation Workplan* was approved by NMOCD on June 13, 2023, and is included as Appendix A.

Between June 8 and July 24, 2023, Ensolum personnel were at the Site to oversee additional excavation, delineation, and confirmation sampling in accordance with Tetra Tech's approved *Remediation Workplan*. Excavation of impacted soil was completed to the maximum extent possible; however, residual TPH and chloride-impacted soil remained under and around production equipment, pipelines, and the jet pump. Approximately 662 cubic yards of soil were left in place due to the presence of the jet pump. During August 2023, the jet pump was removed and on September 11, 2023, BTA submitted a *Remediation Work Plan (Work Plan)* proposing additional vertical delineation, excavation of impacted soil near the jet pump, and final confirmation sampling. The *Work Plan* was reviewed and approved by NMOCD on November 17, 2023 and is included as Appendix B. What follows describes all delineation, soil sampling, and excavation activities completed at the Site in accordance with the approved *Work Plans*.

CULTURAL RESOURCES SURVEYS

The excavation and liner installation were initiated prior to implementation of the Cultural Properties Protection Rule on December 1, 2022. The excavation occurred less than 30 feet from the edge of the well pad disturbance area and appears to be within the clearance buffer of the original siting. No additional cultural resource surveys were completed in connection with this release.

EXCAVATION AND DELINEATION ACTIVITIES

Between June 8 and July 24, 2023, Ensolum personnel were at the Site to oversee additional excavation and soil sampling activities based on previous soil sample analytical results, field screening, and visible observations documented in Tetra Tech's *Remediation Workplan*. Excavation activities were performed utilizing a track hoe and transport vehicles. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. During excavation activities, the poly liner that was installed at 19 feet bgs was removed and is no longer present in the excavation. The excavation was completed to depths ranging from 1.5 feet to 19 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS23 were collected from the floor of the excavation at depths ranging from 1.5 feet to 19 feet bgs. Composite soil samples SW01 through SW22 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 19 feet bgs.



BTA Oil Producers, LLC Closure Request Chiso 14 State Jet Pump and Excavation

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria except for the following floor and sidewall soil samples:

- Floor Soil Samples: FS18 and FS20 through FS23
- Sidewall Soil Samples: SW07, SW13 through SW15, SW21, and SW22

Since all impacted soil could not be safely excavated at that time, areas around the jet pump and production equipment were fully delineated. Delineation soil samples H-1 through H-6 were collected outside of the release extent, at a depth of 0.5 feet bgs, to define the lateral extent of the release. Six soil borings (AH-1 through AH-6) were advanced around the jet pump to depths ranging from 1-foot to 6 feet bgs to define the vertical extent of impacted soil. Delineation soil samples were collected from the soil borings at depths ranging from 1-foot to 6 feet bgs. The delineation soil samples were field screened for VOCs and chloride. Field screening results and observations for the soil borings were logged on lithologic/soil sampling logs, which are included in Appendix D. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results indicated all COC concentrations in lateral delineation soil samples H-1 through H-6 were compliant with the Site Closure Criteria, confirming the lateral extent of the release to the north, east, and south of the jet pump. The chloride concentration in vertical delineation soil samples AH-2 through AH-5 exceeded the Closure Criteria at depths ranging from 2 feet to 3.5 feet bgs; all terminal samples, collected at depths ranging from 3 feet to 6 feet bgs were compliant with the Closure Criteria. Laboratory analytical results for vertical delineation soil sample AH-6 indicated the concentration of TPH exceeded the Closure Criteria at 2 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix E.

ADDITIONAL EXCAVATION

The excavation floor and sidewall soil samples that exceeded the Closure Criteria (FS18 and FS20 through FS23, SW07, SW13 through SW15, SW21, and SW22) were located within and around production equipment and pipelines on pad. Excavation of impacted soil was completed to the maximum extent practicable at the time without compromising the integrity of the equipment and/or pipelines as well as the safety of personnel onsite.

BTA subsequently moved the jet pump and associated production equipment to another location at the facility which allowed access to the impacted soil previously left in place. Ensolum personnel returned to the Site on October 2 and 3, 2023 to oversee excavation of the impacted soil in the previous location of the jet pump. Excavation soil samples FS18, FS20 through FS23, SW07, SW13 through SW15, SW21, SW22 and delineation soil samples AH-1, AH-2/AH-2B, AH-3/AH-3C, AH-4/AH-4A, AH5/AH-5B, and AH-6/AH-6A were removed during the excavation activities.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the final excavation extent. Confirmation soil samples FS24 through FS33 were collected from the floor of the excavation at depths ranging from 3 feet to 6 feet bgs. Confirmation soil samples SW23 through SW29 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6 feet bgs. The excavation extent and excavation soil sample



BTA Oil Producers, LLC Closure Request Chiso 14 State Jet Pump and Excavation

locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix E.

The final excavation extent measured approximately 5,800 square feet in areal extent. A total of approximately 1,700 cubic yards of impacted soil were removed during all excavation activities. The impacted soil was transported and properly disposed of at the R360 Environmental Solutions in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 26, 2022, release of produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation is required. Portions of the release occurred off pad in the pasture. As such, the disturbed pasture area will be reclaimed following the Reclamation Plan in Appendix F.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2205837214. Notifications submitted to the NMOCD are included in Appendix G and the final Form C-141 is included in Appendix H.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Daniel R. Moir, PG

Senior Managing Geologist

Sincerely, Ensolum, LLC

Tacoma Morrissey, M.S. Senior Geologist

Mouissey

cc: Kelton Beaird, BTA

Merchant Livestock Company

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Tetra Tech, May 12, 2023, Remediation Workplan Appendix B September 11, 2023, Remediation Work Plan

Appendix C Photographic Log

Appendix D Lithologic/Soil Sampling Logs

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F Reclamation Plan

Appendix G NMOCD Correspondence

Appendix H Final C-141



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

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

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

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

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

QUESTIONS

Action 293026

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2205837214	
Incident Name	NAPP2205837214 CHISO 14 STATE JET PUMP AND EXCAVATION @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Facility	[fAPP2129434580] Chiso State 14	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	CHISO 14 STATE JET PUMP AND EXCAVATION	
Date Release Discovered	02/26/2022	
Surface Owner	Private	

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

aterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 165 BBL Recovered: 70 BBL Lost: 95 BBL.
s the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Jet Pump Failure. A plug on the manifold of a Jet Pump failed and allowed water from the supply tank to drain from the pump and proceed westward directly into an active excavation being conducted to remove previously contaminated soil. The volume of recovered water v taken from the excavation. The estimate of the volume of water released was calculated from tank gauge data.

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

QUESTIONS, Page 2

Action 293026

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	1 6, INIVI 07 303
QUESTI	ONS (continued)
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 293026 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	[
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENV Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/11/2023

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

QUESTIONS, Page 3

Action 293026

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil	contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully deline	pated Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for	r each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	480	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260	OB) 0	
Benzene (EPA SW-846 Method 8021B or 8260	0B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report inclu- which includes the anticipated timelines for beginning and completing the remediat	des completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, tion.	
On what estimated date will the remediation commence	02/26/2022	
On what date will (or did) the final sampling or liner inspection occur	10/03/2023	
On what date will (or was) the remediation complete(d)	10/03/2023	
What is the estimated surface area (in square feet) that will be reclain	ned 5800	
What is the estimated volume (in cubic yards) that will be reclaimed	5800	
What is the estimated surface area (in square feet) that will be remedi	iated 5800	
What is the estimated volume (in cubic yards) that will be remediated	5800	
These estimated dates and measurements are recognized to be the best guess or ca	alculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally	y adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 293026

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement

Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023

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

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QUESTIONS, Page 5

Action 293026

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 293026

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	293024
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2023
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	5800

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	5800			
What was the total volume (cubic yards) remediated	1700			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	5800			
What was the total volume (in cubic yards) reclaimed	5800			
Summarize any additional remediation activities not included by answers (above)	All soil exceeding the most stringent Table I Closure Criteria has been removed. The excavation has been backfilled with non-waste containing material. Areas not needed for ongoing production activities will be reseeded within 90 days of approval.			

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 (in .pdf format) 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.

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.

Name: BTA ENSOLUM
Title: Environmental Manager
Email: kbeaird@btaoil.com
Date: 12/14/2023

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Action 293026

QUESTIONS	(continued)
QUESTIONS!	(COHUHUCU)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	293026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 293026

CONDITIONS

Operator:	OGRID:
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CONDITIONS

Created B	y Condition	Condition Date
scwells	None	2/29/2024