

October 14, 2024

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

MCA Unit 151 Flowline Release Incident Numbers nAPP2328619341 and nAPP2420871904

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (*Work Plan*) submitted to the New Mexico Oil Conservation Division (NMOCD) on May 7, 2024, and approved by NMOCD on May 13, 2024. This *Closure Request* documents the delineation and excavation activities performed at the MCA Unit 151 Flowline Release (Site) to address impacts to soil resulting from two releases of crude oil and produced water at the Site. Based on the remediation activities completed as outlined in the approved *Work Plan*, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers nAPP2328619341 and nAPP2420871904.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8080° N, -103.7725° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On October 8, 2023, a flowline rupture resulted in the release of approximately 15 barrels (bbls) of produced water and 1 bbl of crude oil onto the surrounding pasture. No fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 26, 2023. The release was assigned Incident Number nAPP2328619341.

On July 26, 2024, a produced water flowline was struck during excavation activities for the above-described Incident Number nAPP2328619341. Approximately 50 bbls of produced water were released within the open excavation and 30 bbls were recovered with a vacuum truck. Maverick reported the release to the NMOCD on July 26, 2024. The release was assigned Incident Number nAPP2420871904.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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).

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Page 2

Results from the characterization were detailed in the approved *Work Plan* and are summarized below. Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest available groundwater well data. The closest permitted groundwater wells with depth to groundwater data are New Mexico Office of the State Engineer (NMOSE) wells RA 12020 POD 1 and RA 12721-POD 2 which are temporary monitoring wells installed to monitor groundwater impacts associated with a release north of the Site at the Maljamar Gas Plant. The monitoring wells are located approximately 950 feet to 1,050 feet north and south of the Site and have a reported depth to groundwater ranging from 75 feet to 81 feet. The monitoring wells were installed to investigate subsurface impacts and conduct long-term monitoring of affected groundwater. They are not utilized for beneficial use and will be plugged and abandoned upon completion of corrective action. The referenced well records are provided in Appendix A.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. 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, 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
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture 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.

SITE ASSESSMENT ACTIVITIES

On October 19, 2023, Tetra Tech personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Soil borings SB-1 and SB-3 through SB-11 were advanced via hand auger around the release extent to confirm the lateral extent of the surface release. The soil borings were advanced to a depth of 1-foot bgs. Discrete delineation soil samples were collected from soil borings at depths ranging from the ground surface to 1-foot bgs.

Soil borings SB-2 and SB-12 through SB-16 were advanced via hand auger within the release extent to assess the vertical extent of the release. The soil borings were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from soil borings at depths ranging from the ground surface to 4 feet bgs. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of the release is included in Appendix B.



Page 3

The delineation 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 constituents 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 Standard Method SM4500.

Laboratory analytical results for the delineation soil samples collected from soil borings SB-1 and SB-3 through SB-11, advanced around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the surface release.

Laboratory analytical results for the delineation soil samples collected from soil borings SB-2 and SB-12 through SB-16, advanced within the release extent, indicated TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirements at depths ranging from the ground surface to 4 feet below ground surface. Laboratory analytical results are summarized on the attached Table 1.

Based on the soil sample analytical results, a *Work Plan* was submitted to the NMOCD proposing the following delineation and excavation activities:

- Vertical delineation of impacted soil to the most stringent Table I Closure Criteria at the location of soil borings SB-2 and SB-12 through SB-15.
- Excavation of impacted soil to the most stringent Table I Closure Criteria in the top 4 feet and to the Site Closure Criteria at depths greater than 4 feet bgs.
- Collection of sidewall samples at a frequency of every 200 square feet and floor samples at a frequency of every 400 square feet.
- The Work Plan was approved by NMOCD on May 13, 2024.

DELINEATION ACTIVITIES

Between July and September 2024, Ensolum personnel were at the Site to complete additional delineation activities. As outlined in the approved *Work Plan*, soil borings/potholes were advanced at sample points SB-2 and SB-12 through SB-15 to delineate the vertical extent of impacted soil to below the most stringent Table I Closure Criteria. The soil borings were advanced to depths ranging from 8 feet to 16 feet bgs. Soil from the borings was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Final depth of the soil borings was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Field screening results and observations from the soil borings were logged on lithologic soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from the soil borings at depths ranging from 5 feet to 16 feet bgs.

The soil samples were collected, handled, and analyzed as described above at Cardinal Laboratories in Hobbs, New Mexico. The delineation soil sample locations are presented on Figure 2. Photographic documentation was completed during the delineation activities. A photographic log is included in Appendix B.

Laboratory analytical results for the delineation samples from soil borings SB-2 and SB-12 through SB-15 advanced within the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria at depths ranging from 5 feet to 14 feet bgs.



Page 4

The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

A produced water line was struck on July 26, 2024, during remediation activities for Incident Number nAPP2328619341. The released produced water was contained within the open excavation. The release was reported to the NMOCD and was assigned Incident Number nAPP2420871904. The release extent is depicted on Figure 2 and encompassed the area around delineation soil boring SB-13. The final vertical delineation samples were collected from SB-13 after the second release occurred. Additionally, soil borings SB-17 and SB-18 were advanced to the east and west of the release area to confirm that no release fluids escaped the open excavation. Laboratory analytical results for the delineation samples from soil borings SB-17 and SB-18 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Remediation of the July 26, 2024, release was completed in coordination with the on-going excavation activities for Incident Number nAPP2328619341.

EXCAVATION ACTIVITIES

Between July and September 2024, Ensolum personnel were at the Site to oversee excavation of impacted soil based on the delineation soil sample analytical results and as outlined in the approved *Work Plan*. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a hydro-vacuum, hand shovels, track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 3 feet to 14 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 400 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation. 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 FS34 were collected from the floor of the excavation at depths ranging from 3 feet to 14 feet bgs. Composite soil samples SW01 through SW19 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 13 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS34 and excavation sidewall samples SW01 through SW19, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 13,200 square feet in areal extent. A total of approximately 4,800 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico.

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil. One representative 5-point composite sample (Backfill) was collected from the topsoil backfill material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirement for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH



Page 5

concentrations less than 100 mg/kg. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix D.

Following backfill activities, the disturbed pasture area was recontoured to match the surrounding topography and the surface was prepared for seeding. The disturbed pasture area was seeded with the BLM sandy sites seed mix #2 at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

The seed mix was distributed with a drill seeder. Photographs of the reclaimed excavation area are provided in Appendix B.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of predisturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

CLOSURE REQUEST

As outlined in the approved *Work Plan*, delineation and excavation activities were conducted at the Site to address the releases of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements in the top 4 feet. Additionally, the release was vertically delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, and excavation and delineation soil sampling activities completed as outlined in the approved *Work Plan*, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 70 feet bgs at the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Numbers nAPP2328619341 and nAPP2420871904.



Page 6

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely, **Ensolum**, **LLC**

Aimee Cole

Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

Bureau of Land Management

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 Referenced Well Records

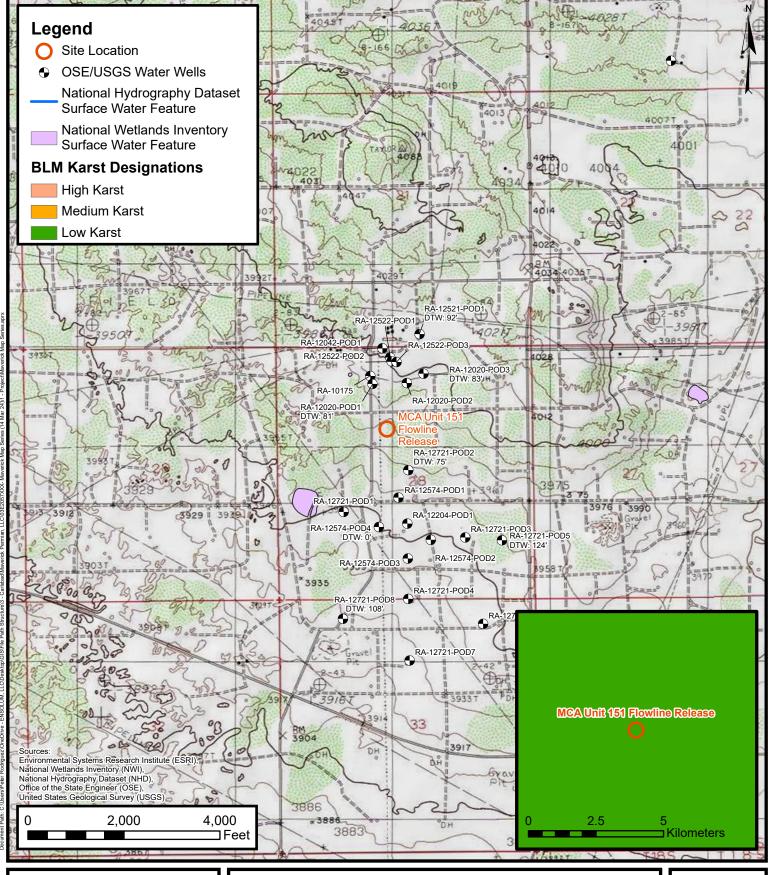
Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain of Custody Documentation



FIGURES



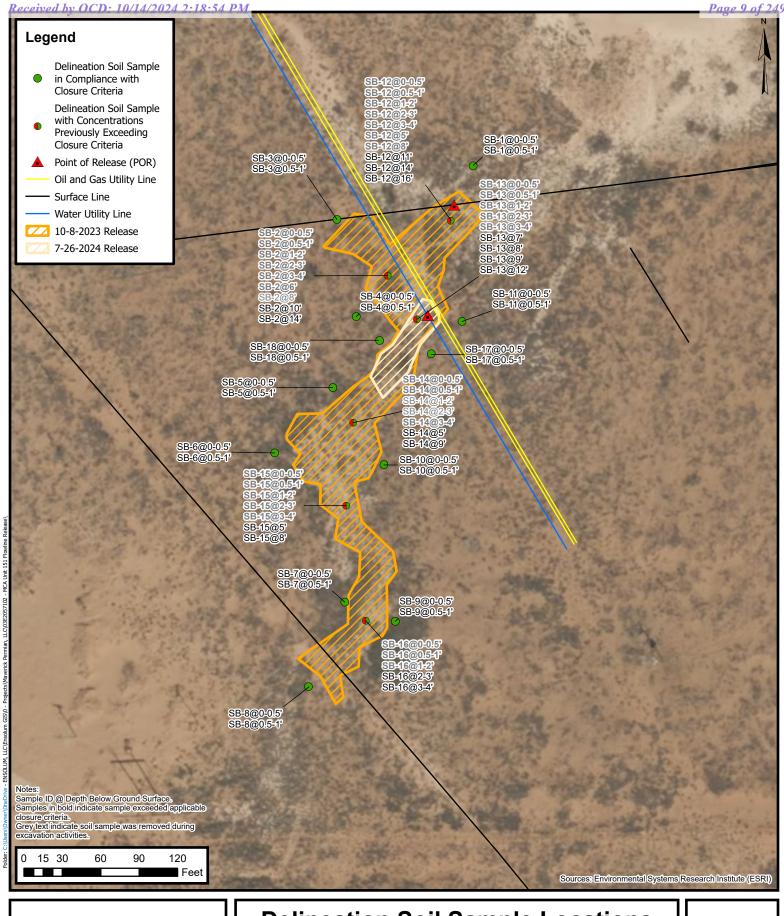


Site Receptor Map

MCA Unit 151 Flowline Release
Maverick Permian, LLC

Incident Number: nAPP2328619341 and nAPP2420871904
Unit F, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE

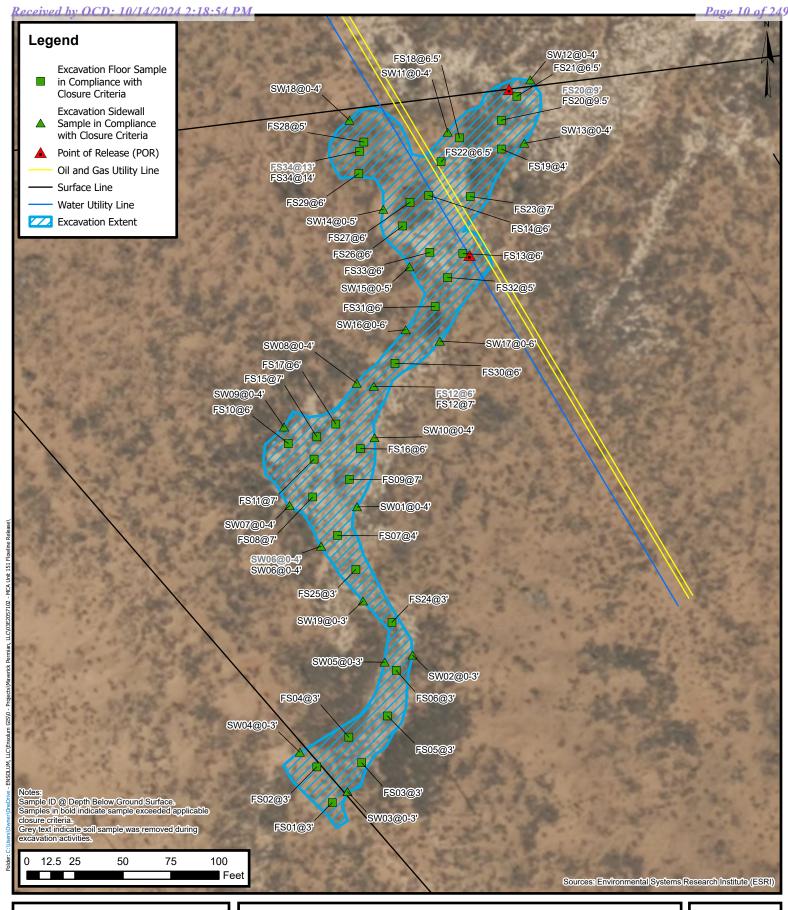




Delineation Soil Sample Locations

Maverick Permian, LLC
MCA Unit 151 Flowline Release
Incident Number: nAPP2328619341 and nAPP2420871904
Unit F, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

Maverick Permian, LLC
MCA Unit 151 Flowline Release
Incident Number: nAPP2328619341 and nAPP2420871904
Unit F, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE 3





				Lea C	County, New Me	xico				
Sample Designation	Date	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 Ta	able I Closure Cr 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600
				Delien	neation Soil San	nples				
SB-1	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-1	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-2	10/19/2023	0-0.5	<0.050	<0.300	<50.0	22,100	9,450	22,100	31,550	48.0
SB-2	10/19/2023	0.5-1	< 0.050	0.75	<50.0	14,700	7,230	14,700	21,930	48.0
SB-2	10/19/2023	1-2	< 0.050	<0.300	<50.0	10,900	5,830	10,900	16,730	32.0
SB-2	10/19/2023	2-3	< 0.050	<0.300	<50.0	9,660	4,780	9,660	14,440	<16.0
SB-2	10/19/2023	3-4	< 0.050	<0.300	<50.0	5,550	3,200	5,550	8,750	16.0
SB-2	7/15/2024	6	<0.100	16.6	1,150	15,300	2,790	16,450	19,240	<16.0
SB-2	7/15/2024	8	< 0.050	<0.300	19.7	844	145	864	1,009	3,120
SB-2	9/13/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SB-2	9/13/2024	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SB-3	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-3	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-4	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-4	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-5	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-5	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-6	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-6	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-7	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-7	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



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	Lea County, New Mexico												
Sample Designation	Date	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 Ta	able I Closure Cr 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000			
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600			
SB-8	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SB-8	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SB-9	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SB-9	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SB-10	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SB-10	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SB-11	10/19/2023	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SB-11	10/19/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SB-12	10/19/2023	0-0.5	23.7	587	8,180	25,800	5,430	33,980	39,410	3,200			
SB-12	10/19/2023	0.5-1	13.9	541	6,940	14,300	2,830	21,240	24,070	1,710			
SB-12	10/19/2023	1-2	6.50	313	3,610	8,490	1,550	12,100	13,650	2,200			
SB-12	10/19/2023	2-3	1.88	147	1,390	3,690	555	5,080	5,635	5,360			
SB-12	10/19/2023	3-4	1.53	81.9	2,260	6,770	1,070	9,030	10,100	4,880			
SB-12	7/15/2024	5	< 0.050	3.92	366	4,560	656	4,926	5,582	3,000			
SB-12	7/15/2024	8	< 0.050	2.80	393	9,840	1,870	10,233	12,103	32.0			
SB-12	9/13/2024	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608			
SB-12	9/13/2024	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464			
SB-12	9/13/2024	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384			



	Lea County, New Mexico												
Sample Designation	Date	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 Ta	able I Closure Cri 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000			
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600			
SB-13	10/19/2023	0-0.5	<0.050	132	2,560	15,300	2,970	17,860	20,830	96.0			
SB-13	10/19/2023	0.5-1	< 0.050	7.48	229	2,300	469	2,529	2,998	128			
SB-13	10/19/2023	1-2	< 0.050	0.84	27	706	155	733	888	256			
SB-13	10/19/2023	2-3	< 0.050	0.36	<10.0	421	90	421	511	1,800			
SB-13	10/19/2023	3-4	< 0.050	<0.300	<10.0	501	107	501	608	1,710			
SB-13	7/12/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,100			
SB-13	7/12/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880			
SB-13	9/13/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150			
SB-13	9/13/2024	12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208			
SB-14	10/19/2023	0-0.5	0.12	44.0	1,200	12,400	2,410	13,600	16,010	2,400			
SB-14	10/19/2023	0.5-1	<0.050	<0.300	<10.0	145	24	145	169	1,960			
SB-14	10/19/2023	1-2	<0.050	<0.300	<10.0	34.8	<10.0	34.8	34.8	496			
SB-14	10/19/2023	2-3	<0.050	<0.300	<10.0	80.3	<10.0	80.3	80.3	576			
SB-14	10/19/2023	3-4	<0.050	<0.300	<10.0	496	103	496	599	650			
SB-14	7/12/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608			
SB-14	7/12/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320			
SB-15	10/19/2023	0-0.5	<2.00	107	2,820	31,500	6,080	34,320	40,400	2,160			
SB-15	10/19/2023	0.5-1	2.93	98.1	2,600	30,500	5,830	33,100	38,930	2,160			
SB-15	10/19/2023	1-2	<5.00	26.4	1,300	12,600	1,980	13,900	15,880	1,640			
SB-15	10/19/2023	2-3	<0.20	26.6	366	3,020	587	3,386	3,973	288			
SB-15	10/19/2023	3-4	<0.050	2.3	68.8	832	<10.0	901	901	656			
SB-15	7/12/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320			
SB-15	7/12/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224			



				Lea C	ounty, New Me	xico				
Sample Designation	Date	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 Ta	able I Closure Cri 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600
SB-16	10/19/2023	0-0.5	<0.050	<0.300	<10.0	1,810	329	1,810	2,139	32.0
SB-16	10/19/2023	0.5-1	< 0.050	<0.300	<10.0	211	59.9	211	271	32.0
SB-16	10/19/2023	1-2	< 0.050	<0.300	<10.0	165	31.8	165	197	32.0
SB-16	10/19/2023	2-3	<0.050	<0.300	<10.0	21.7	<10.0	21.7	21.7	32.0
SB-16	10/19/2023	3-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SB-17	9/27/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SB-17	9/27/2024	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SB-18	9/27/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SB-18	9/27/2024	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Excavati	on Floor Soil S	amples				
FS01*	8/1/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02*	8/1/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS03*	8/1/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS04*	8/1/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS05*	7/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS06*	7/9/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS07	8/1/2024	4	<0.050	<0.300	<10.0	876	215	876	1,091	416
FS08	8/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS09	8/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS10	8/26/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS11	8/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
FS12	9/5/2024	6	<0.050	4.56	121	1,390	242.0	1,511	1,753	528
FS12	9/12/2024	7	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960



SOIL SAMPLE ANALYTICAL RESULTS MCA Unit 151 Flowline Release Maverick Permian, LLC

Lea County, New Mexico

	Lea County, New Mexico												
Sample Designation	Date	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 Ta	able I Closure Cr 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000			
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600			
FS13	8/9/2024	6	<0.050	<0.300	<10.0	148	21.5	148	170	1,780			
FS14	8/14/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272			
FS15	8/26/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128			
FS16	8/26/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144			
FS17	8/26/2024	6	<0.050	<0.300	<10.0	127	11.9	127	139	304			
FS18	9/9/2024	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040			
FS19	8/28/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,840			
FS20	9/9/2024	9	1.29	93	795	2,690	396.0	3,485	3,881	4,080			
FS20	9/12/2024	9.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300			
FS21	9/9/2024	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600			
FS22	8/28/2024	6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,000			
FS23	8/28/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170			
FS24*	8/29/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240			
FS25*	8/29/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144			
FS26	9/5/2024	6	<0.050	<0.300	<10.0	97.0	31.0	97.0	128	208			
FS27	9/5/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240			
FS28	9/5/2024	5	<0.050	<0.300	<10.0	568	176.0	568	744	144			
FS29	9/5/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
FS30	9/5/2024	6	<0.050	0.994	34.7	522	75.2	557	632	864			
FS31	9/5/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600			
FS32	9/5/2024	5	<0.050	<0.300	<10.0	178	40.7	178	219	272			



SOIL SAMPLE ANALYTICAL RESULTS MCA Unit 151 Flowline Release

Maverick Permian, LLC
Lea County, New Mexico

				Lea C	County, New Me	xico				
Sample Designation	Date	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 Ta	able I Closure Cr 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Recla	NMOCD Reclamation Requirements for the top four feet			NE	NE	NE	NE	NE	100	600
FS33	9/5/2024	6	<0.050	<0.300	<10.0	21.7	<10.0	21.7	21.7	240
FS34	9/12/2024	13	<0.050	0.6	29.7	1,610	402	1,640	2,042	32.0
FS34	9/16/2024	14	<0.050	<0.300	<10.0	212	45.2	212	257	32.0
				Excavatio	n Sidewall Soil	Samples				
SW01*	8/26/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW01	8/26/2024	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW02*	8/1/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03*	8/1/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04*	8/1/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW05*	8/1/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06*	8/26/2024	0-4	< 0.050	<0.300	<10.0	108	32.7	108	141	48.0
SW06*	9/5/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07*	8/26/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW07	8/26/2024	4-7	0.06	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW08*	8/1/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW09*	8/26/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW09	8/26/2024	4-7	<0.050	<0.300	<10.0	20.4	<10.0	20.4	20.4	64.0
SW10*	8/26/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW10	8/26/2024	4-6	<0.050	<0.300	<10.0	581	152	581	733	112
SW11*	8/28/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW11	9/9/2024	4-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144



SOIL SAMPLE ANALYTICAL RESULTS

MCA Unit 151 Flowline Release Maverick Permian, LLC Lea County, New Mexico

Sample Designation	Date	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 Ta	able I Closure Cr 19.15.29)	iteria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Recla	mation Requiren four feet	nents for the top	NE	NE	NE	NE	NE	NE	100	600
SW12*	8/28/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW12	9/9/2024	4-6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
SW13*	8/28/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW14*	8/28/2024	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW15*	8/28/2024	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW16*	9/5/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW17*	8/28/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW18*	9/12/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW18	9/12/2024	4-8	<0.050	<0.300	<10.0	14.4	<10.0	14.4	14.4	48.0
SW18	9/12/2024	8-13	<0.050	<0.300	<10.0	212	119	212	331	32.0
SW19*	8/29/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

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

NMAC: New Mexico Administrative Code

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec Tws Rng
 X
 Y

 NA
 RA 12721 POD2
 1
 1
 4
 28
 17S
 32E
 615055
 3630407

Driller License: 1456 Driller Company: WHITE DRILLING COMPANY

Driller Name: JOHN W WHITE

Drill Start Date: 04/18/2019 Drill Finish Date: 04/19/2019 Plug Date:

Log File Date:05/15/2019PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield: 0 GPMCasing Size:2.00Depth Well:124 feetDepth Water:75 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	56	99	Sandstone/Gravel/Conglomerate
	99	102	Sandstone/Gravel/Conglomerate
	102	103	Shale/Mudstone/Siltstone
	103	105	Shale/Mudstone/Siltstone
	105	117	Shale/Mudstone/Siltstone
	117	118	Other/Unknown
	118	120	Shale/Mudstone/Siltstone
	120	121	Sandstone/Gravel/Conglomerate
	121	124	Shale/Mudstone/Siltstone
Casing Perforations:	Тор	Bottom	
	84	124	

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



New Mexico Office of the State Engineer

Point of Diversion Summary

17S 32E

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng 28

 \mathbf{X}

614828

WHITE DRILLING COMPANY

3630954

Driller License: 1456

Driller Company:

Driller Name:

RA 12020 POD1

WHITE, JOHN (LD)

Drill Finish Date:

09/25/2013

Bottom Description

Plug Date:

Estimated Yield:

Log File Date:

Drill Start Date:

09/24/2013 10/07/2013

2.00

PCW Rcv Date:

Source:

Shallow

Pump Type:

Casing Size:

Pipe Discharge Size:

Depth Well:

120 feet

Depth Water: 81 feet

Water Bearing Stratifications:

Top 70

Sandstone/Gravel/Conglomerate

111

Shale/Mudstone/Siltstone

Casing Perforations:

Bottom Top

75 110

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

4/23/24 1:39 PM

POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

Maverick Permian, LLC
MCA Unit 151 Flowline Release
Incident Number nAPP2328619341 and
nAPP2420871904





Photograph 1 Date: 10/10/2023 Description Release area (nAPP2328619341)

View: South

Photograph 2 Date: 07/26/2024 Description: Release area (nAPP2420871904)

View: East





Photograph 3 Date: 07/15/2024

Description Excavation activities
View: South

Photograph 4 Date: 08/19/2024

Description: Excavation activities

View: Southwest

ENSOLUM

Photographic Log

Maverick Permian, LLC

MCA Unit 151 Flowline Release
Incident Number nAPP2328619341 and

nAPP2420871904





Photograph 5

Date: 08/29/2024

Photograph 6 Date: 08/29/2024

Description Excavation activities

View: West

Description: Excavation activities

View: North





Photograph 7

Date: 09/27/2024

Photograph 8

Date: 09/27/2024

Description Backfilled excavation

View: North

Description: Backfilled excavation

View: Southwest



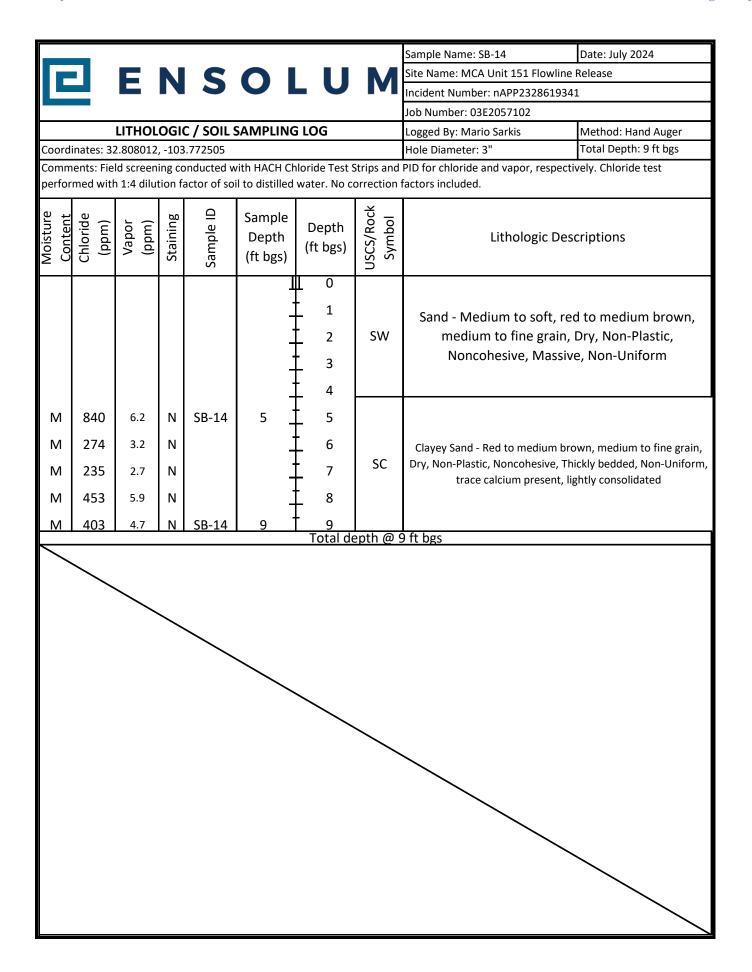
APPENDIX C

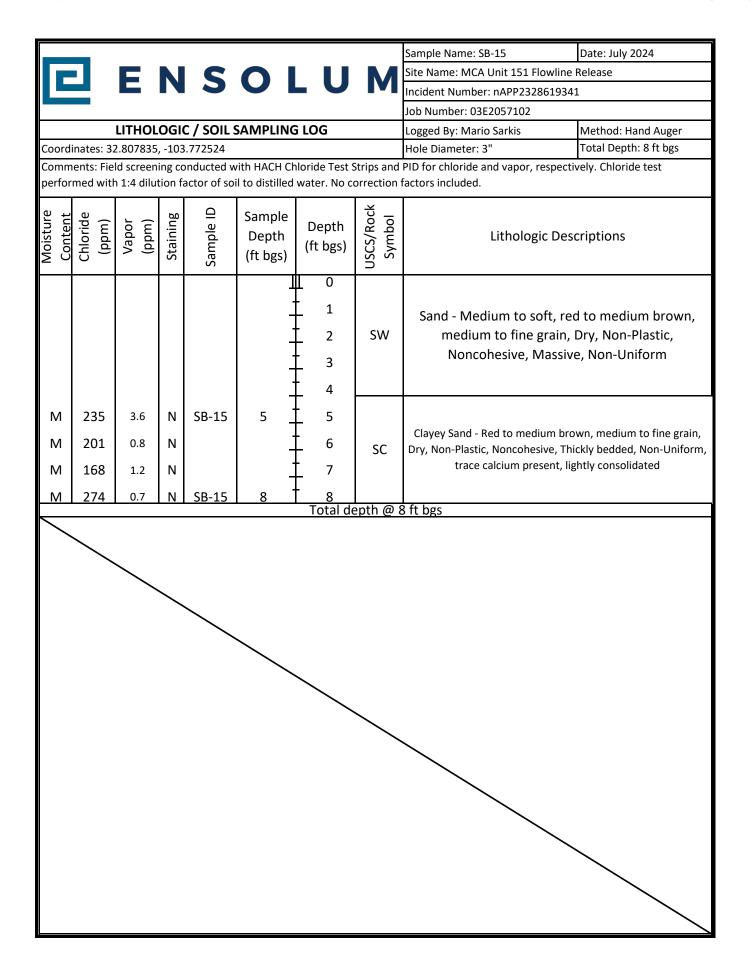
Lithologic Soil Sampling Logs

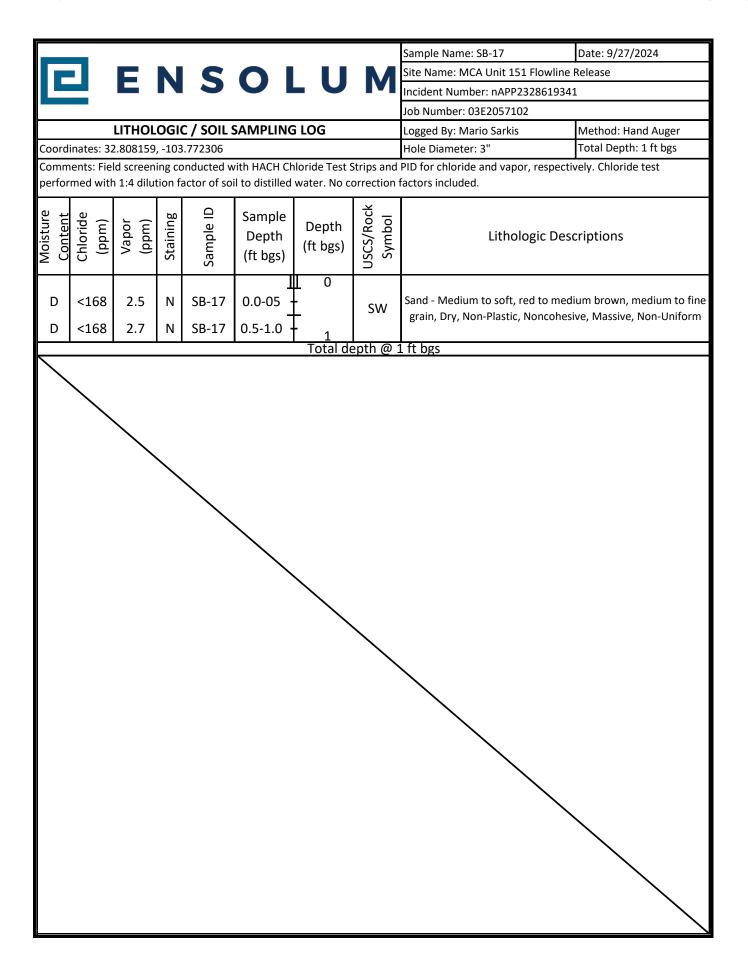
								Sample Name: SB-2	Date: July Sentember 2024			
	7						B .4	Site Name: MCA Unit 151 Flow	Date: July-September 2024			
			N	5	0 1	LU	M	Incident Number: nAPP232861				
								Job Number: 03E2057102	19341			
		LITHOL	OGIO	- / SOIL 9	SAMPLING	SIOG		Logged By: Mario Sarkis	Method: Hand Auger			
Coord	inates: 32				JAIVII LIIV	100		Hole Diameter: 3"	Total Depth: 14 ft bgs			
Comm	nents: Fie	ld screen	ing co	nducted w				PID for chloride and vapor, res	•			
perfor	med with	n 1:4 dilut	ion fa	actor of so	il to distilled	water. No c	orrection	factors included.				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions			
						1	SW	medium to fine gra	r, red to medium brown, ain, Dry, Non-Plastic, ssive, Non-Uniform			
D D	<173	224.5 1,035	Y Y	SB-2	6	5 6	SW	Non-Plastic, Noncohesive, Thi	own, medium to fine grain, Dry, ckly bedded, Non-Uniform, trace lightly consolidated			
D		425.70 357.6	N	SB-2	- - 8	- 7		Caliche - Light to dark ta	to dark tan, medium dense, coarse			
D	<173	357.0	N		- -	_ 8 _ 9	CCHE	_	n plastic, dry, noncohesive			
D	442	1.7	N	SB-2	10 _	_ 10 _ 11						
D	442	0.4	N		- - -	12 13	CL		with white mottling, low st, non cohesive			
D	263	0.3	N	SB-2	14	14						
$\overline{}$						Total de	pth @ 1	4 ft bgs				

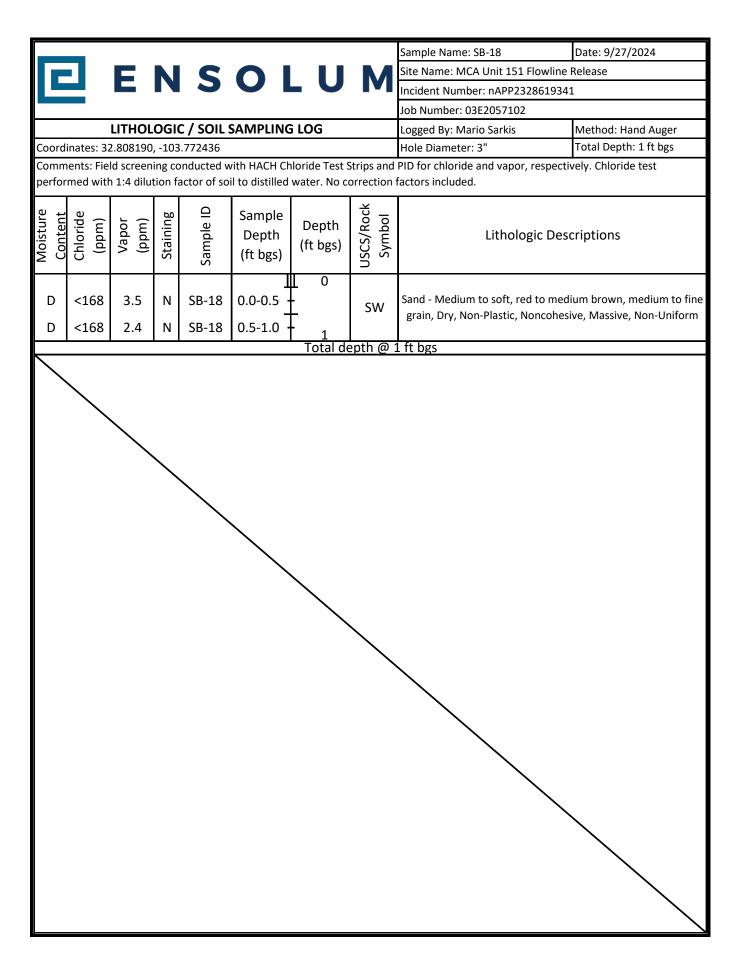
								<u> </u>	1		
		_			_			Sample Name: SB-12	Date: July-September 2024		
		E	N	S		LU	M	Site Name: MCA Unit 151 Flowlin			
							• • •	Incident Number: nAPP23286193	341		
-		LITUOI	001	. / sou s	CANADLINIC	2100		Job Number: 03E2057102	NA - Ale - ale III - and Accord		
Coord	inates: 32				SAMPLING	LUG		Logged By: Mario Sarkis Hole Diameter: 3"	Method: Hand Auger Total Depth: 16 ft bgs		
					ith HACH Ch	nloride Test S	Strips and	PID for chloride and vapor, respec	•		
			_					factors included.			
Moisture Content	Chloride (ppm) Vapor Vapor Vapor (ppm) Samble Depth (ft bgs) OSCS/Rock OSCS/Rock					(ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
					- - - - -	1 2 3	SW	Sand - Medium to soft, r medium to fine grain Noncohesive, Mass	n, Dry, Non-Plastic,		
M M	4,832	2560 658	Y Y	SB-12	5 _	5 6	SW	Silty Sand - Red to medium brow Non-Plastic, Noncohesive, Thickl calcium present, ligh	y bedded, Non-Uniform, trace		
М		459	Υ		-	7					
М	4,452	396	N	SB-12	8 _	8	ССНЕ	Caliche - Light to dark tan to medium grain size, non			
					_	9		to mediam gram size, non	prastro, ary, nonconcorre		
М	929	1.4	N		<u>-</u>	10					
М	929	0.8	N	SB-12	11	11					
				30 12	-	T					
М	851	2.2	N		_	12		Sand - Medium to soft, r			
					_	13	SW	medium to fine grain			
М	610	0.8	N	SB-12	14	14		Noncohesive, Massive, No	·		
М	1,254	0.7	N		-	15		prese	ent.		
				CD 43	4.5						
М	492	0.2	N	SB-12	16	16 Total de	pth @ 1	I 6 ft bgs			
			_								
									_		

	_			_			Sample Name: SB-13	Date: July-September 2024			
ENSOLUM							Site Name: MCA Unit 151 Flowline Release				
		_			_						
	LITUO	00'	C / SOUL 4	CANADLING	Job Number: 03E2057102						
Coordinator: 2				SAMPLING	Logged By: Mario Sarkis Hole Diameter: 3"	Method: Hand Auger Total Depth: 12 ft bgs					
Coordinates: 32.808233, -103.772339 Comments: Field screening conducted with HACH Chloride Test Strips and								· · · · · · · · · · · · · · · · · · ·			
		_					factors included.	pectively. Cilioride test			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions			
				1	1 0 1 2 3 4	SW	medium to fine gra	it, red to medium brown, rain, Dry, Non-Plastic, assive, Non-Uniform			
M 274 M 918	0.5	N N		- - -	5 6	SW	Silty Sand - Red to medium brown, medium to fine grain, Non-Plastic, Noncohesive, Thickly bedded, Non-Uniform, calcium present, lightly consolidated				
M 1,584	0	N	SB-13	7	7						
M 403	0	N	SB-13	8 _	8		Clayey Sand - Loose, Pink with white mottling, low				
M 1,355	0.7	Ν	SB-13	9	9	SC					
M 1,069	0.3	N		_	10		plasticity, moist, non cohesive				
				_	_ 						
				_	_ 11						
M 442	0.6	N	SB-13	12	12 Total de	nth at 1	? ft has				











APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

October 25, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA - 151

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 16:19.

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:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Applymed By: AM

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 1 (0-.5') (H235740-01)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEX	<0.300	0.300	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	<16.0	16.0	10/23/2023	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	10/20/2023	ND	186	92.8	200	0.215	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	203	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	102 % 48.2-		4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 1 (.5-1') (H235740-02)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 % 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	10/23/2023	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	10/20/2023	ND	186	92.8	200	0.215	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	203	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 3 (0-.5') (H235740-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 3 (.5-1') (H235740-04)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 4 (0-.5') (H235740-05)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 4 (.5-1') (H235740-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 5 (0-.5') (H235740-07)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						
3									

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 5 (.5-1') (H235740-08)

BTEX 8021B	mg,	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 6 (0-.5') (H235740-09)

BTEX 8021B

DIEX OUZID	11197	- Kg	Alldiyzo	u by. Att					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 6 (.5-1') (H235740-10)

BTEX 8021B

DILX GOZID	mg/	ng .	Alldiyzo	u by. Att					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 7 (0-.5') (H235740-11)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. Att					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 7 (.5-1') (H235740-12)

BTEX 8021B	mg,	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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10/19/2023

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 10/19/2023 Sampling Date:

Fax To:

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 8 (0-.5') (H235740-13)

BTEX 8021B

DILX GOZID	mg/	K9	Alldiyzo	u by. Att					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 8 (.5-1') (H235740-14)

BTEX 8021B

DILX OUZID	11197	9		u by. Att					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						

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10/19/2023

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 10/19/2023 Sampling Date:

Reported: 10/25/2023 Sampling Type: Soil

Fax To:

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 9 (0-.5') (H235740-15)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 9 (.5-1') (H235740-16)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 10 (0-.5') (H235740-17)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 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	<16.0	16.0	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 10 (.5-1') (H235740-18)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	10/23/2023	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Applyzod By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 11 (0-.5') (H235740-19)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	<0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 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	10/23/2023	ND	432	108	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	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 11 (.5-1') (H235740-20)

very True Value QC RPD Qualifier 4 2.00 2.05 2 2.00 5.61 1 2.00 3.53
2 2.00 5.61 1 2.00 3.53
1 2.00 3.53
7 600 500
7 6.00 5.28
overy True Value QC RPD Qualifier
3 400 3.77
overy True Value QC RPD Qualifier
2 200 2.17
0 200 2.53
3

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STRE

 $901\ \mathsf{WEST}\ \mathsf{WALL}\ \mathsf{STREET}$, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 2 (0-.5') (H235740-21)

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	10/23/2023	ND	2.08	104	2.00	2.05	
Toluene*	< 0.050	0.050	10/23/2023	ND	2.04	102	2.00	5.61	
Ethylbenzene*	< 0.050	0.050	10/23/2023	ND	1.98	99.1	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.92	98.7	6.00	5.28	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 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	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	22100	50.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	9450	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	684	% 49.1-14	8						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 03256

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 2 (.5-1') (H235740-22)

BTEX 8021B	mg/kg		Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	0.181	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	0.180	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	0.387	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	0.748	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	48.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	90.2	200	2.17	
DRO >C10-C28*	14700	50.0	10/23/2023	ND	196	98.0	200	2.53	
EXT DRO >C28-C36	7230	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	369 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB -2 (1-2') (H235740-23)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	10900	50.0	10/23/2023	ND	182	91.2	200	2.74	QM-07
EXT DRO >C28-C36	5830	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	301	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 03256

Project Location: MAVERICK - LEA CO NM

Sample ID: SB -2 (2-3') (H235740-24)

BTEX 8021B	mg/kg		Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	<16.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	9660	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	4780	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	194 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Applyzod By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB -2 (3-4') (H235740-25)

RTFY 8021R

:X 8021B	тд/кд		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	16.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	5550	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	3200	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	165	% 49.1-14	8						

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Celeg D. Frene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 12 (0-.5') (H235740-26)

RTFY 8021R

IEX 8021B	тд/кд		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	23.7	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	178	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	149	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	237	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	587	12.0	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 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	3200	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8180	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	25800	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	5430	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	672	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	451	% 49.1-14	8						

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Celey D. Keine



10/19/2023

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date:

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 12 (.5-1') (H235740-27)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.9	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	168	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	143	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	215	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	541	12.0	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 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	1710	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6940	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	14300	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	2830	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	405	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	252	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 12 (1-2') (H235740-28)

RTFY 8021R

B1EX 8021B	mg	/kg	Analyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.50	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	89.2	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	83.1	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	134	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	313	12.0	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	2200	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3610	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	8490	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	1550	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	246	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Applyzod By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 12 (2-3') (H235740-29)

RTFY 8021R

B1EX 8021B	mg	/кд	Analyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.88	0.500	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	38.3	0.500	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	40.1	0.500	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	66.9	1.50	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	147	3.00	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 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	5360	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1390	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	3690	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	555	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	143	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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C-04



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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 12 (3-4') (H235740-30)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: AW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.53	0.200	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	19.9	0.200	10/24/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	22.4	0.200	10/24/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	38.1	0.600	10/24/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	81.9	1.20	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	167	% 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	4880	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2260	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	6770	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	1070	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	188	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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S-04



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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 13 (0-.5') (H235740-31)

BTEX 8021B

BIEX 9021B	mg	/ Kg	Anaiyze	a by: Aw					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	9.68	0.500	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	41.0	0.500	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	81.3	1.50	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	132	3.00	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	171	% 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	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2560	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	15300	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	2970	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	387	% 48.2-13	4						
Surrogata: 1 Chloroctadacana	276	0/2 10 1 14	Q						

276 % Surrogate: 1-Chlorooctadecane 49.1-148

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 13 (.5-1') (H235740-32)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	0.455	0.050	10/24/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	2.14	0.050	10/24/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	4.89	0.150	10/24/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	7.48	0.300	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	191	% 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	128	16.0	10/23/2023	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*	229	10.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	2300	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	469	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 13 (1-2') (H235740-33)

BTEX 8021B	mg/	kg	Analyze	d By: AW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/24/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	0.147	0.050	10/24/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	0.696	0.150	10/24/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	0.843	0.300	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 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	256	16.0	10/23/2023	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*	26.9	10.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	706	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	155	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 13 (2-3') (H235740-34)

BTEX 8021B	mg	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/24/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	0.093	0.050	10/24/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	0.267	0.150	10/24/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	0.360	0.300	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	1800	16.0	10/23/2023	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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	421	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	89.8	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 13 (3-4') (H235740-35)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	1710	16.0	10/23/2023	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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	501	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	107	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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S-04



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10/19/2023

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date:

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 14 (0-.5') (H235740-36)

BTEX 8021B

DILK GOZID	mg/	Ng .	Analyzo	u by. Att					J 07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.120	0.100	10/24/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	2.74	0.100	10/24/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	11.2	0.100	10/24/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	29.9	0.300	10/24/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	44.0	0.600	10/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	253	% 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	2400	16.0	10/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1200	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	12400	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	2410	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	255	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	235	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - MD - 03256

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 14 (.5-1') (H235740-37)

BTEX 8021B	mg/	kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	1960	16.0	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	145	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	23.5	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 14 (1-2') (H235740-38)

BTEX 8021B	mg,	kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	0.085	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	0.058	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	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	496	16.0	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	34.8	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 03256

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 14 (2-3') (H235740-39)

BTEX 8021B	mg/	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	576	16.0	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	80.3	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 14 (3-4') (H235740-40)

BTEX 8021B	mg/	kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	<0.050	0.050	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	650	16.0	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	496	10.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	103	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 15 (0-.5') (H235740-41)

BTEX 8021B	mg,	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/23/2023	ND	1.95	97.4	2.00	2.84	
Toluene*	13.1	2.00	10/23/2023	ND	2.00	100	2.00	2.45	
Ethylbenzene*	27.6	2.00	10/23/2023	ND	2.01	101	2.00	1.55	
Total Xylenes*	66.0	6.00	10/23/2023	ND	6.10	102	6.00	0.0889	
Total BTEX	107	12.0	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	2160	16.0	10/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2820	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	31500	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	6080	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	643	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	560	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 15 (.5-1') (H235740-42)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.93	2.00	10/23/2023	ND	2.15	107	2.00	0.974	QM-07
Toluene*	13.0	2.00	10/23/2023	ND	2.16	108	2.00	5.19	QM-07
Ethylbenzene*	23.6	2.00	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	58.5	6.00	10/23/2023	ND	6.41	107	6.00	4.45	QM-07
Total BTEX	98.1	12.0	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	2160	16.0	10/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2600	50.0	10/23/2023	ND	180	89.9	200	0.633	
DRO >C10-C28*	30500	50.0	10/23/2023	ND	182	91.2	200	2.74	
EXT DRO >C28-C36	5830	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	612	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	560	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 15 (1-2') (H235740-43)

RTFY 8021R

B1EX 8021B	mg	/ kg	Analyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	2.35	0.500	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	5.79	0.500	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	18.3	1.50	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	26.4	3.00	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 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	1640	16.0	10/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1300	50.0	10/23/2023	ND	220	110	200	1.73	QM-07
DRO >C10-C28*	12600	50.0	10/23/2023	ND	209	104	200	3.87	QM-07
EXT DRO >C28-C36	1980	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	149	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	304	% 49.1-14	8						

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Celey D. Keine



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

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 03256 Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 15 (2-3') (H235740-44)

BTEX 8021B	mg,	'kg	Analyzed By: AW						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	1.65	0.200	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	8.36	0.200	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	16.6	0.600	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	26.6	1.20	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	157	% 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	288	16.0	10/23/2023	ND	400	100	400	7.69	
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*	366	50.0	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	3020	50.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	587	50.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 15 (3-4') (H235740-45)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	2.33	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	2.33	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	151	% 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	656	16.0	10/23/2023	ND	400	100	400	7.69	
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*	68.8	10.0	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	832	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 16 (0-.5') (H235740-46)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 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	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	1810	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	329	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Applyzod By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 16 (.5-1') (H235740-47)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	0.194	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	211	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	59.9	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 03256

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 16 (1-2') (H235740-48)

BTEX 8021B	mg/	kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	165	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	31.8	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	98.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: MCA - 151 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 03256 Sample Received By:

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 16 (2-3') (H235740-49)

BTEX 8021B	mg/	kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 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	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	21.7	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 10/19/2023 Sampling Date: 10/19/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: MCA - 151 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03256 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: MAVERICK - LEA CO NM

Sample ID: SB - 16 (3-4') (H235740-50)

BTEX 8021B

	9,	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	10/23/2023	ND	400	100	400	7.69	
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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

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Celey D. Keens



Notes and Definitions

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

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Celeg D. Freene

Received by OCD: 10/14/2024 2:18:54 PM of 249
Analysis Request of Chain of Custody Record Client Name: Invoice to: (county, state) roject Name: Receiving Laboratory: roject Location Relinquished by Relinquished by: Relinguished by LAB USE ONLY LAB# 4 SB-3 (.5-1') SB-3 (0-.5') SB-1 (.5- 1') SB-6 (0-.5) SB-5 (.5-1') SB-5 (0-.5") SB-4 (.5-1') SB-4 (0-.5) SB-1 (0-.5') SB-6 (.5-1') Lea County, NM **Maverick Natural Resources** Cardinal Labs Attn: Chuck Terhune MCA-151 Tetra Tech, Inc. SAMPLE IDENTIFICATION 0-19-Date: Date: lime: Time: Time: Site Manager: Sampler Signature Project # ORIGINAL COPY Received by 'EAR: 2023 Received by 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 DATE SAMPLING chuck.terhune@tetratech.com TIME Chuck Terhune WATER 281-755-8965 MATRIX × SOIL 212C-MD-03256 901 W Wall Strc at, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946 Jorge Fernadez HCL Date: Date: PRESERVATIVE METHOD HNO₃ ICE Time: Plan 0-14-2 # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 8260B (Circle) HAND DELIVERED TPH TX1005 (Ext to C35) LAB USE × TPH 8015M (GRO - DRO - ORO - MRO) × PAH 8270C Circle or Specify Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg **ANALYSIS REQUEST** REMARKS: TCLP Semi Volatiles RUSH: Same Day Rush Charges Authorized FEDEX UPS Special Report Limits or TRRP Report RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 Standard Method NORM PLM (Asbestos) × × × Chloride 24 hr Sulfate TDS No Chloride General Water Chemistry (see attached list) 48 hr Anion/Cation Balance 72 hr 으 Page 53 of 57 Hold

Released to Imaging: 10/16/2024 9:20:08 AM

Received by OCD: 10/14/2024 2:18:54 PM 89 Analysis Request of Chain of Custody Record Client Name: roject Name: Comments Receiving Laboratory: nvoice to: county, state) Relinquished by roject Location Relinguished by Relinquished by: LAB USE ONLY LAB# ᆏ 20 CU SB-14 (1-2') SB-14 (.5-1') SB-14 (0-.5') SB-13 (3-4) SB-13 (2-3') SB-13 (1-.2') SB-13 (.5- 1') SB-13 (0-.5') SB-14 (2-3') SB-14 (3-4') Lea County, NN **Maverick Natural Resources** Cardinal Labs Attn: Chuck Terhune MCA-151 Tetra Tech, Inc. SAMPLE IDENTIFICATION Date: Time: Time: Time: 16:18 Sampler Signature Project # Site Manager: ORIGINAL COPY Received by Received by 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 EAR: 2023 10/19/2023 10/19/2023 10/19/2023 10/19/2023 DATE SAMPLING chuck.terhune@tetratech.com TIME Chuck Terhune WATER 281-755-8965 MATRIX × SOIL 212C-MD-03256 901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946 Jorge Fernadez HCL Date: Date: PRESERVATIVE METHOD HNO₂ × ICE Time: # CONTAINERS FILTERED (Y/N) BTEX 8260B BTEX 8021B Sample Temperature (Circle) HAND DELIVERED FEDEX UPS TPH TX1005 (Ext to C35) LAB USE ONLY TPH 8015M (GRO - DRO - ORO - MRO) × × × × × × × PAH 8270C Circle or Specify Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg **ANALYSIS REQUEST** TCLP Volatiles REMARKS: TCLP Semi Volatiles Rush Charges Authorized RUSH: Same Day Special Report Limits or TRRP Report RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 S*andard TAT Method NORM PLM (Asbestos) × × × Chloride 24 hr Sulfate TDS Chloride General Water Chemistry (see attached list) 48 hr Anion/Cation Balance of. 72 hr Page 56 of 57

Hold

	y OCD Relinquished by:	W.	Constitution of the last	Relinquished by:	1	Relinquished by:	<i>S</i> 0 SB-16	49 SB-16	48 SB-16	47 SB-16 (.5-1')	46 SB-16 (05')	45 SB-15 (3-4)	44 SB-15 (43 SB-15	42 SB-15 (.5- 1')	√ // SB-15 ((LAB USE)	LAB#	43574S		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	Page
	Date: Time:			Date: Time:	Mar 5 10-19-27	Date: Time: 16.18	(3-4')	(2-3')	(1-2')	(.5-1')	(05')	(3-4)	(2-3')	(12')	(.5- 1')	(05')			SAMPLE IDENTIFICATION			Cardinal Labs	Attn: Chuck Terhune	Lea County, NM	MCA-151	Maverick Natural Resources	Tetra Tech, Inc.
	Neceived by:			Received by:	1/1/1/1/	1	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	DATE		YEAR: 2023	SAMPLING			Sampler Signature:	Project#:		Site Manager:	
	_				184 Cala		×	×	×	×	×	×	×	×	×	×	WAT	EF	R	MATRIX		Jorge Fe		212C-MI	chuck.terhune@tetratech.co	Chuck Terhune	901 W Wall Midland,1 Tel (432 Fax (433
		Date: Time:	•	Date: Time:	THE WILL	1 Link	×	×	×	×	×	×	×	×	×	×	HNC)3		PRESERVATIVE METHOD		Fernadez		212C-MD-03256	ech.com	une	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
	#	2	V. S.	Sample T	DIG "	1993 1993	×	×		×	×	×	×	×	×	×		ERI	ED (Y 021B 1005	//N) BTE (Ext to	EX 8260 C35)		MRO)				
	140 Os			Sample Temperature	ONLY	LAB USE											PAH Total TCLF	Me Me Me	70C tals A etals /	g As I Ag As	Ba Cd Cr Ba Cd C	Pb Se	Hg			ANALYSIS (Circle or Speci	
1	Special Report Limits or TRRP Report	Ivasii Cilaiges Autilolized	high Charges Author	RUSH: Same Day).	Standard IAI		×	×	×	×	×	×	×	×	×	GC/N	MS S s 8 M (As	Semi. 082 /	608	/ 624 3270C/62	5				LYSIS REQUEST Specify Method	
Tracking #:	or TRRP Report	IZEC	1790	24 hr 48 hr 72 hr	1000	IAI											Chlo	ride eral	Wate	ulfate er Che Balar	emistry (see at	tached	list)	=	d No.)	



July 17, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA UNIT 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/12/24 14:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Sampling Date: 07/12/2024
Reported: 07/17/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.808,-103.7725

Sample ID: SB-15 5 (H244179-01)

DTEV 0021D

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	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	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	320	16.0	07/15/2024	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	07/15/2024	ND	208	104	200	2.61	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Reported: 07/17/2024

Project Name: MCA UNIT 151 FLOWLINE RELEASE

ma/ka

Project Number: 03E2057102

Project Location: 32.808,-103.7725

Sampling Date: 07/12/2024

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Alyssa Parras

Sample ID: SB-15 8 (H244179-02)

RTFY 8021R

BIEX 8021B	mg,	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	224	16.0	07/15/2024	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	07/15/2024	ND	196	98.1	200	6.69	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Reported: 07/17/2024

Project Name: MCA UNIT 151 FLOWLINE RELEASE

ma/ka

 Project Number:
 03E2057102

 Project Location:
 32.808,-103.7725

Sampling Date: 07/12/2024

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Alyssa Parras

Sample ID: SB-14 5 (H244179-03)

RTFY 8021R

BIEX 8021B	mg	^и кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	< 0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	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	608	16.0	07/15/2024	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	07/15/2024	ND	196	98.1	200	6.69	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Sampling Date: 07/12/2024 Reported: 07/17/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes) Project Number: 03E2057102 Sample Received By: Alyssa Parras

Project Location: 32.808,-103.7725

Sample ID: SB-14 9 (H244179-04)

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	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	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	320	16.0	07/15/2024	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	07/15/2024	ND	196	98.1	200	6.69	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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07/12/2024

Soil

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Sampling Date:
Reported: 07/17/2024 Sampling Type:

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.808,-103.7725

ma/ka

Sample ID: SB-13 7 (H244179-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	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	1100	16.0	07/15/2024	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	07/15/2024	ND	196	98.1	200	6.69	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/12/2024 Sampling Date: 07/12/2024 Reported: 07/17/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 03E2057102 Alyssa Parras

Project Location: 32.808,-103.7725

Sample ID: SB-13 8 (H244179-06)

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	07/15/2024	ND	2.02	101	2.00	0.920	
Toluene*	<0.050	0.050	07/15/2024	ND	2.03	101	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/15/2024	ND	2.08	104	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2024	ND	6.11	102	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	880	16.0	07/15/2024	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	07/15/2024	ND	196	98.1	200	6.69	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	195	97.5	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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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

(575) 393-2326 FAX (575) 393-2476	(575) 393-2476		
Company Name: Ensolum, LLC		ON THIS	ANALYSIS REQUEST
		BO #:	
Project Manager: Aimee Cole		7.0. #.	
Address: 3122 National Parks Hwy		Company: TN SOLUM, LLC	
	State: NM Zip: 88220	Attn: ATMER COLE	
384-7365	Fax #:	Address:	
200	Project Owner:	City:	

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roject Manager: Aimee Cole	ee Cole								9	P.O. #:	#																		-										
Address: 3122 National Parks Hwy	al Parks Hwy								C	E	par	Y.	111	150	Company: TIM SOLUM, LUC	3	Lu	()																					
City: Carlsbad		State: NM Z	Zip: 88220	822	0				D	5	I	3	33	2	Attn: AIMER COLE																								
hone #: (720) 384-7365		Fax #:							D	Address:	ess																										-	DED SAN E	
roject #: 03/2057/02		Project Owner:							C	City:				1																									
Project Name: MCA	15) Flowline	re Release	(0						S	State:	1			Zip:																				-					
7.	32.808,-103.	3.7725		F.					P	Phone #:	10	75																											
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	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP	ROUNDWATER	VASTEWATER	OIL	OIL	SLUDGE	OTHER:	ACID/BASE:		CE/COOL	OTHER:	_	DATE	m	⊣	T ME	0	BTEX	TOH	1 1 1 1	Chloride	011/01/0															
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July 19, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA UNIT 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/24 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/15/2024

Reported: 07/19/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)
Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: 32.808,-103.7725

Sample ID: SB - 12 5 (H244210-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	0.310	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	GC-NC1
Ethylbenzene*	1.04	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	2.57	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	
Total BTEX	3.92	0.300	07/16/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	213	% 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	3000	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	366	50.0	07/16/2024	ND	205	102	200	4.76	
DRO >C10-C28*	4560	50.0	07/16/2024	ND	196	98.2	200	2.44	
EXT DRO >C28-C36	656	50.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	162	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	180	% 49.1-14	8						

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Celey D. Keene

C-04



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

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/15/2024

Reported: 07/19/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)

Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: 32.808,-103.7725

ma/ka

Sample ID: SB - 12 8 (H244210-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	<0.050	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	GC-NC
Ethylbenzene*	2.04	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	0.759	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	
Total BTEX	2.80	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	391	% 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	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	393	50.0	07/16/2024	ND	205	102	200	4.76	
DRO >C10-C28*	9840	50.0	07/16/2024	ND	196	98.2	200	2.44	
EXT DRO >C28-C36	1870	50.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	145	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	242	% 49.1-14	8						

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Celey D. Keene

C-04



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

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/15/2024

Reported: 07/19/2024 Sampling Type: Soil

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)

Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: 32.808,-103.7725

ma/ka

Sample ID: SB - 2 6 (H244210-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	<0.100	0.100	07/16/2024	ND	1.92	95.8	2.00	2.09	GC-NC
Ethylbenzene*	10.1	0.100	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	6.51	0.300	07/16/2024	ND	5.77	96.2	6.00	0.655	GC-NC1
Total BTEX	16.6	0.600	07/16/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	293	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1150	50.0	07/16/2024	ND	205	102	200	4.76	
DRO >C10-C28*	15300	50.0	07/16/2024	ND	196	98.2	200	2.44	
EXT DRO >C28-C36	2790	50.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	178	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	313	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/15/2024

Reported: 07/19/2024 Sampling Type: Soil
Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: **(

Project Name: MCA UNIT 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)

Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Project Location: 32.808,-103.7725

Sample ID: SB - 2 8 (H244210-04)

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	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	<0.050	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	
Ethylbenzene*	0.089	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	0.151	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	GC-NC1
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.7	10.0	07/16/2024	ND	205	102	200	4.76	
DRO >C10-C28*	844	10.0	07/16/2024	ND	196	98.2	200	2.44	
EXT DRO >C28-C36	145	10.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	117 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	155	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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Celeg D. Freene

Relinquished By:

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

> Observed Temp. °C Time:

86

Sample Condition
Cool Intact
Yes Yes

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.
Yes Yes
No No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

Received By:

REMARKS:

acole Censolum, com/msaskis Censolum, com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(3/3) 333-2320 1	MA (3/3) 333-24/0	+/0					J
Company Name: Ensolum, LLC	Ensolum, LLC			OL TRIB		A	ANALYSIS REQUEST	
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:				
Address: 3122 N	Address: 3122 National Parks Hwy			Company: MS614M, LLC	THE			
City: Carlsbad		State: NM	Zip: 88220	Attn: ATMER COLD	8			
Phone #: (720) 384-7365	84-7365	Fax #:		Address:				
Project #:03 巨兄057 102	2057/02	Project Owner:	7	City:				
Project Name:	Project Name: MLA 151 Flowling Release	line Release	(0	State: Zip:				
Project Location: 32, 805	:32,809,-10	-103,7725		Phone #:				
Sampler Name:	Mario Sarv	CNIS		Fax #:				
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	5		
Lab I.D.	Sample I.D.	Depth (feet)	RAB OR (C)OMP. ONTAINERS OUNDWATER STEWATER L	JDGE HER: D/BASE: // COOL HER:	BTEX	TPH Chloride		
1 0774770	58-12	S	# G	O'	1205			
2	58-12	00	0	, ,	12/4	< ,		
(V)	58-2	0	0	1	1316	1		
4	58-2	8	6		1331	7		
PLEASE NOTE: Liability and analyses. All claims includi service. In no event shall C	d Damages. Cardinal's liability and ng those for negligence and any oth ardinal be liable for incidental or cor	client's exclusive remedy for a ser cause whatsoever shall be nsequental damages, includin	any claim arising whether based in co deemed waived unless made in writi ng without limitation, business interrup	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	y client, its subsidiaries,	able		
affiliates or successors arising Relinquished By:	affiliates or successors arising out of or related to the performance of services. Relinquished By: Date:	Date 15 24	Received By:	herunder by Cardinal, rejardless of wineters such claim is based upon any or the above stated reasons or unexwested to the same reasons or unexwested to the above stated reasons or unexwested to the above stated reasons or unexwested to the above stated reasons or unexpected to the	Verbal Result: All Results are e	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'l Phone #: de Email address:	

Thermometer ID #113



August 07, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/01/24 16:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024 Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition:

Cool & Intact Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: SW 02 0-3 (H244631-01)

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	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	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	32.0	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	71.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Reported: 08/07/2024

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Location: 32.808, -103.7725 Sampling Date: 08/01/2024

Sampling Type: Soil Sampling Condition:

Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 0-3 (H244631-02)

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	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	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	32.0	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	65.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: SW 04 0-3 (H244631-03)

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	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	34						
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	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	65.7	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	65.9	% 49.1-14	18						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

Sample ID: SW 05 0-3 (H244631-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	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	32.0	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	59.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	56.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: FS 01 3 (H244631-05)

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	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	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	48.0	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	71.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: FS 02 3 (H244631-06)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	1.94	96.8	2.00	5.34	
Toluene*	<0.050	0.050	08/05/2024	ND	1.90	94.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.92	95.9	2.00	3.63	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.66	94.3	6.00	3.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 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	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	71.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

ma/ka

Sample ID: FS 03 3 (H244631-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.02	101	2.00	0.147	
Toluene*	<0.050	0.050	08/05/2024	ND	2.10	105	2.00	0.998	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	6.64	111	6.00	1.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	64.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.5	% 49.1-14	8						

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08/01/2024

Soil

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date:

Reported: 08/07/2024 Sampling Type:

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

ma/ka

Sample ID: FS 04 3 (H244631-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.02	101	2.00	0.147	
Toluene*	<0.050	0.050	08/05/2024	ND	2.10	105	2.00	0.998	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	6.64	111	6.00	1.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	g/kg Analyzed		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sample ID: FS 07 4 (H244631-09)

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	08/05/2024	ND	2.02	101	2.00	0.147	
Toluene*	<0.050	0.050	08/05/2024	ND	2.10	105	2.00	0.998	
Ethylbenzene*	0.063	0.050	08/05/2024	ND	2.17	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	6.64	111	6.00	1.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	416	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	876	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	215	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 08/01/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

Sample ID: SW 08 0-4 (H244631-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.02	101	2.00	0.147	
Toluene*	<0.050	0.050	08/05/2024	ND	2.10	105	2.00	0.998	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	6.64	111	6.00	1.38	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	112	16.0	08/06/2024	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	08/05/2024	ND	185	92.6	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	185	92.6	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13



August 12, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/09/24 11:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/12/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Project Location: 32.808, -103.7725

Sample ID: FS 13 6' (H244820-01)

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	08/09/2024	ND	2.08	104	2.00	2.47	
Toluene*	<0.050	0.050	08/09/2024	ND	2.03	102	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.06	103	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	6.07	101	6.00	1.63	
Total BTEX	<0.300	0.300	08/09/2024	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	1780	16.0	08/12/2024	ND	400	100	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	08/09/2024	ND	227	114	200	4.23	
DRO >C10-C28*	148	10.0	08/09/2024	ND	218	109	200	2.61	
EXT DRO >C28-C36	21.5	10.0	08/09/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey & 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. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Formation Corrected Temp. °C 3.5 Coop Infact Corrected Temp. °C 3.5 Coop Infact Coop In	based in contract or tort, shall be limited to the amount paid made in writing and received by Cardinal within 30 days after tess interruptions, loss of use, or loss of profits incurred by citether such claim is based upon any of the above stated rest.	Lab I.D. Sample I.D. Depth (C)OMP. HZ44820 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ACID/BASE:	Address: City: State: Zip Phone #: Fax #: MATRIX PRESERV.	State: NM Zip: 88220 Company: F/S/W/LLC Fax #: Company: F/S/W/LLC	BILL TO
MSaCKiS CONSIM M, COM Bacteria (only) Sample Condition Cool Intact Observed Temp. °C I No No Corrected Temp. °C	Add'I Phone #: Ovide Email address:			AWALTSIS REQUEST	



August 15, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/14/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/14/2024 Sampling Date: 08/14/2024

Reported: 08/15/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: FS 14 6' (H244924-01)

BTEX 8021B

				-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2024	ND	2.07	104	2.00	10.2	
Toluene*	<0.050	0.050	08/14/2024	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.03	101	2.00	11.2	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	5.95	99.1	6.00	11.6	
Total BTEX	<0.300	0.300	08/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/15/2024	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	08/14/2024	ND	220	110	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	225	113	200	7.37	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	Q						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Notes and Definitions

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

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(0.0) 000-2020 17	ox (3/3) 333-24/0		
Company Name: Ensolum, LLC		OT THIS	ANALYSIS REQUEST
Project Manager: Aimee Cole		P.O. #:	-
Address: 3122 National Parks Hwy		Company: ENSOIUMJIC	
City: Carlsbad	State: NM Zip: 88220	Attn: ATMER COLE	
Phone #: (720) 384-7365	Fax #:	Address:	
Project #: 03E2057/02	Project Owner:	City:	
Project Name: SICA Unit 151	Flowline REJEASE	State: Zip:	
Project Location: 32.808, -	103.7725	#	
Sampler Name: May 10 Say Kis	ís e	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
	ERS ATER		X
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINED GROUNDWAT WASTEWATE SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlori
/ 2/27	6	0.5 kg/h/g	
EASE NOTE: Liability and Damages. Cardinal's liability and client alyses. All claims including those for negligence and any other cau rvice. In no event shall Cardinal be liable for incidental or conseque	LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nalyses. 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 process. In one event shall Cardinal be liable for incidental of consequental damages, including without limitation, business intermediate loses for the process of the cardinal damages.	tort, shall be limited to the amount paid by the socied by Cardinal within 30 days after comple	lient for the ton the applicable
telinquished By:	Date: Received By:	ther such claim is based upon any of the above stated reasons or Vert All R	Verbal Result: Yes No Add'i Phone #:
elinquished By:	Time: Time: Time:	A C	A LO JE BENSO JUM, LOM / M SOL KIS ORNSO JUM, COM REMARKS:
	Cô	CHECKED BY:	Bacteria (only) S
FURM-000 K 3.2 10/07/21	Corrected Tamp, °C' Nes Tyes No I No I No		Themometer D #443 140 Themometer D West Yes Yes No Corrected Temp. C



August 30, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 08/26/2024
 Sampling Date:
 08/26/2024

 Reported:
 08/30/2024
 Sampling Type:
 Soil

Reported: 08/30/2024 Sampling Type: Soil
Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Coo

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: FS 08 7 (H245180-01)

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported:

08/30/2024

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Location: 32.808, -103.7725 Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: FS 09 7 (H245180-02)

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2024	ND	432	108	400	3.64	
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	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 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 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



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported:

08/30/2024

Project Name: MCA 151 FLOWLINE RELEASE Project Number: 03E2057102

Project Location: 32.808, -103.7725 Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: FS 10 6 (H245180-03)

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	432	108	400	3.64	
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	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

ma/ka

Sample ID: FS 11 7 (H245180-04)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sample ID: FS 15 7 (H245180-05)

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported:

08/30/2024 MCA 151 FLOWLINE RELEASE

Project Name: Project Number: 03E2057102

Project Location: 32.808, -103.7725 Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: FS 16 6 (H245180-06)

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported: 08/30/2024

08/30/2024 MCA 151 FLOWLINE RELEASE

Project Name: MCA 151 FLOWL Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: FS 17 6 (H245180-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/28/2024	ND	432	108	400	3.64	
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	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	127	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	11.9	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	18						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03E2057102 Sample Received By:

Project Location: 32.808, -103.7725

Sample ID: SW 06 0-4 (H245180-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	108	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	32.7	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	'8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported: 08/30/2024

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Location: 32.808, -103.7725 Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: SW 07 0-4 (H245180-09)

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	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: SW 07 4-7 (H245180-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.057	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported: 08/30/2024

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102
Project Location: 32.808, -103.7725

Sampling Date: 08/26/2024

Sampling Type: Soil

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

Sample ID: SW 09 0-4 (H245180-11)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

Sample ID: SW 09 4-7 (H245180-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	20.4	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

Sample ID: SW 10 0-4 (H245180-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Reported:

08/30/2024

MCA 151 FLOWLINE RELEASE

Project Number: Project Location:

Project Name:

03E2057102 32.808, -103.7725 Sampling Date:

08/26/2024

Soil

Sampling Type:

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

Sample ID: SW 10 4-6 (H245180-14)

BTEX 8021B	mg/kg Analyzed By: JH								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2024	ND	432	108	400	3.64	
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	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	581	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	152	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: SW 01 0-4 (H245180-15)

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	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	<0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/26/2024 Sampling Date: 08/26/2024

Reported: 08/30/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 03E2057102

Project Location: 32.808, -103.7725

Sample ID: SW 01 4-7 (H245180-16)

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	08/27/2024	ND	2.25	112	2.00	1.92	
Toluene*	< 0.050	0.050	08/27/2024	ND	2.31	115	2.00	1.63	
Ethylbenzene*	< 0.050	0.050	08/27/2024	ND	2.31	116	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	7.03	117	6.00	1.01	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/27/2024	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	08/27/2024	ND	198	99.2	200	6.50	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	188	94.1	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(3/3) 333-2320 1	Jan (0:0) 000 =:		Miller & Admirated American	
Company Name: Ensolum, LLC	Ensolum, LLC			OL THE	ANALYSIS REQUEST
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:	
Address: 3122 N	Address: 3122 National Parks Hwy			Company: FASOLUMILLC	1,11,1
City: Carlsbad		State: NM	Zip: 88220	Attn: AiMee Cole	
Phone #: (720) 384-7365	84-7365	Fax #:		Address:	
Project #: 035205710	205-710 3	Project Owner:		City:	
Project Name: /	MCA 15-1			State: Zip:	
Project Location:	:32,808,-10	3.7725		Phone #:	
Sampler Name:	Mario Sari	Kis		Fax #:	
FOR LAB USE ONLY	- 1		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlorida
-00	F508	7	7 17	1 8/34a	1004 1 1 1
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W.	£510	6	2	. <	010
4	ES11	7	7		0/4
U	15/5	1	C '		,
re		18			1031
√	20117	7-0	7	9	1306 / / /
9	SW07	0-4	V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1207 / / /
6	SWOZ	4->	C 1 1	< **	1309 111
PLEASE NOTE: Liability an analyses. All claims includir service. In no event shall Co	d Damages. Cardinal's liability and g those for negligence and any oth irdinal be liable for incidental or cor	client's exclusive remedy for an er cause whatsoever shall be d isequental damages, including	s exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the arro- see whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 or hald damagoever shall be deemed waived unless made in writing and received by Cardinal within 30 or hald damagoever, including without limitation, business interruptions, loss of use, or loss of profits rou-	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 writin 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequents, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitiaries, service. In no event shall Cardinal be liable for incidental or consequence of cardinal persons of whether such dains is based upon any of the above stated reasons or otherwise.	y the client for the youngletion of the applicable nnt, its subsidiaries, ons or otherwise.
Relinquished By	A. South of the second of the boundary	Date: 726/24	Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Delinquiched By:		(N)	Received By:	queet	alole@ensolumicom/msoshis@ensolumicom REMARKS:
		Time:		C	
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time: Standard W Bacteria (only) Sample Condition LRush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:		Corrected Temp. °C3		28	0 0

Page 19 of 20

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC		01,7719	ANALYSIS KEQUESI
		ı	
Project Manager: Aimee Cole		P.O. #:	
Address: 3122 National Parks Hwy		Company: Ensolum, Lic	
City: Carlsbad	State: NM Zip: 88220	Attn: Aimee Cole	
Phone #: (720) 384-7365	Fax #:	Address:	
Project #: () 36205710 2	Project Owner:	City:	
3		State: Zip:	
Project Location: 32.808, 763	3. 7725	Phone #:	
Sampler Name: Malio Sal 415		Fax #:	
		PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		BTEX
poms //		V 8/26/24/12/3	. <
12 Swo9	7 7 7 7	`	2001/1/1
15 SW10	2-2-2-2	\	1 / / OBE
Swo	1 1 1 6-0	, \	N N N SERI
100 Swol	4-7 (1)	<	1203 V V V
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or	는 원 글	nuraci or tor, shall be lillined to the amount powering and received by Cardinal within 30 days after topions, loss of use, or loss of profits incurred by clothers, loss of use, or loss of profits incurred by clothers, loss of the above stated teathers.	completion of the applicable nnt, its autostiantes, or otherwise.
affidates or successors arising out of or related to the performance Relinquished By:	Time: 1539 Time: 1539 Time: 1539 Time: 1539 Time: 1539 Time: 1539	Leigney	Verbal Result: □ Yes □ No Add'l Phone #: All Results are emailed. Please provide Email address: © COIO CON SOLMM, COM FMSo(Ki3&CNSOLMM, COM
Relinquished By:	Date: Received By:	(KEMAKNA:
Delivered By: (Circle One)	2	Condition CHECKED BY: Intact (Ipit)als)	Standard B
Sampler - UPS - Bus - Other:	5 68	8	Thermometer ID #113# /40 Yes Yes

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

Page 20 of 20



September 04, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 14:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.808, -103.7725

Sample ID: FS19 4 (H245239-01)

DTEV 0021D

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	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sample ID: SW11 0-4 (H245239-02)

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	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name:MCA 151 FLOWLINE RELEASESampling Condition:Cool & IntactProject Number:03E2057102Sample Received By:Alyssa ParrasProject Location:32.808, -103.7725

Applyzod By: 14

Sample ID: SW12 0-4 (H245239-03)

ma/ka

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SW13 0-4 (H245239-04)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.808, -103.7725

ma/ka

Sample ID: FS22 6.5 (H245239-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Reported:

09/04/2024

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Location: 32.808, -103.7725 Sampling Date: 08/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: FS23 7 (H245239-06)

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	08/30/2024	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	5.67	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.09	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.41	107	6.00	4.23	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SW14 0-5 (H245239-07)

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	08/30/2024	ND	2.00	100	2.00	2.01	
Toluene*	<0.050	0.050	08/30/2024	ND	1.92	96.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.91	95.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.72	95.3	6.00	0.993	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Analyzed By: JH

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Sample Received By:

08/28/2024

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: Reported: 09/04/2024 Sampling Type:

Reported: 09/04/2024 Sampling Type:
Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition:

Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sample ID: SW15 0-5 (H245239-08)

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	08/30/2024	ND	2.00	100	2.00	2.01	
Toluene*	<0.050	0.050	08/30/2024	ND	1.92	96.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.91	95.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.72	95.3	6.00	0.993	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/28/2024 Sampling Date: 08/28/2024

Reported: 09/04/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SW17 0-6 (H245239-09)

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	08/30/2024	ND	2.00	100	2.00	2.01	
Toluene*	<0.050	0.050	08/30/2024	ND	1.92	96.0	2.00	2.09	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	1.91	95.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	5.72	95.3	6.00	0.993	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2024	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	08/29/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	223	112	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC		(OLYMPIA)	
Project Manager: Aimee Cole		P.O.#:	ANALYSIS REQUEST
Address: 3122 National Parks Hwy	Hwy	Company: A-MA	
City: Carlsbad	State: NM	Zip: 88220 Attn: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
hone #: (720) 384-7365	Fax #:	Address:	7,44
roject #: 03E2057/02			
roject Name: MCA 151		State.	
roject Location: 32.808	8,-103,7725		
e: MASIOS	Kis		
FOR LAB USE ONLY		MATRIX PRESERV.	SAMPLING
		RS TER	X
Lab I.D. Sample I.D.	D. (feet)	LUDGE THER: CID/BASE: E / COOL Y THER:	12-2
1-519	4	# # GO V V S S C C S S C C C S C C C C C C C C	
2 SW11	0-4	C 1 V V 8/28/24	1 9/10
5 SWIA	0-4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0925
S COO	0-4		0956
10 CON	0:0		1038 V V V
J 5W14	7-0		1401
SWIS	0-5	C - '	
9 SW17	9-0		7 / / / / / / / / / / / / / / / / / / /
SE NOTE: Liability and Damages. Cardinal's liability	and client's exclusive remodu for		
ses. All claims including those for negligence and an e. In no event shall Cardinal be liable for incidental or or successors arising out of	y other cause whatsoever shall be do r consequental damages, including v	ses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal be limited to the amount paid by the client for the se. In o event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions loss of use or lose of rocks.	aid by the client for the fler completion of the applicable
inquished By:	Date:	ices nereunder by Cardinal, regardless of whether such claim is based upon any of the above stated the: Received By:	
1	Time:		em
inquished By:	Date:	Received By:	
	Time:		NEWANNO.
ivered By: (Circle One)	Observed Temp. °C 7 O	Sample Condition	
pler - UPS - Bus - Other:	Corrected Temp. °C7		Iumaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C
1 ONW-000 K 3.2 10/0/121	† Cardinal car	acce	Corrected Temp. °C
			mana ta aala. I aa a



September 18, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accredited 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 3122 NATIONAL PARKS HWY

CARLSBAD NM, 88220

Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 24 3' FS 25 3'	H245272-01 H245272-02	Soil Soil	29-Aug-24 09:26 29-Aug-24 09:31	29-Aug-24 11:30 29-Aug-24 11:30
SW 19 0-3'	H245272-03	Soil	29-Aug-24 09:33	29-Aug-24 11:30

09/18/24 - Client changed the sample ID on -03 (see COC). This is the revised report and will replace the one sent on 09/04/24.

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

FS 24 3' H245272-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	4083010	CT	30-Aug-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4083004	JH	30-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4083004	JH	30-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4083004	JН	30-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4083004	JH	30-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4083004	JH	30-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5	-134	4083004	ЈН	30-Aug-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctane			80.0 %	48.2	-134	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			83.5 %	49.1	-148	4082912	MS	29-Aug-24	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

FS 25 3' H245272-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4083010	CT	30-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	0)		116 %	71.5	-134	4083004	ЈН	31-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctane			74.3 %	48.2	-134	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			78.0 %	49.1	-148	4082912	MS	29-Aug-24	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

SW 19 0-3' H245272-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4083010	CT	30-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4083004	ЈН	31-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4083004	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		120 %	71.5	-134	4083004	ЈН	31-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctane			81.0 %	48.2	-134	4082912	MS	29-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			83.8 %	49.1	-148	4082912	MS	29-Aug-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 4083010 - 1:4 DI Water												
Blank (4083010-BLK1)				Prepared &	: Analyzed:	30-Aug-24						
Chloride	ND	16.0	mg/kg									
LCS (4083010-BS1)				Prepared &	Analyzed:	30-Aug-24						
Chloride	416	16.0	mg/kg	400		104	80-120					
LCS Dup (4083010-BSD1)				Prepared & Analyzed: 30-Aug-24								
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20			

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Celey D. Keene



%REC

111

71.5-134

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0557

Prepared & Analyzed: 30-Aug-24 Searce ND 0.050 mg/kg Searce Searce ND 0.050 mg/kg Searce S			reporting		Spine	Bource		/orche		IG D		
Prepared & Analyzed: 30-Aug-24 Senzene ND 0.050 mg/kg Senzene Senzene ND 0.050 mg/kg Senzene Senz	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
ND	Batch 4083004 - Volatiles											
ND 0.050 mg/kg 117 71.5-134 15.8 15.9 mg/kg 1.050 mg/kg	Blank (4083004-BLK1)				Prepared &	Analyzed:	30-Aug-2	4				
Server S	Benzene	ND	0.050	mg/kg								
ND 0.150 mg/kg 0.0500 mg/kg	Toluene	ND	0.050	mg/kg								
No	Ethylbenzene	ND	0.050	mg/kg								
CLCS (4083004-BS1) Prepared & Analyzed: 30-Aug-24	Total Xylenes	ND	0.150	mg/kg								
Prepared & Analyzed: 30-Aug-24 Senzene 2.11 0.050 mg/kg 2.00 106 82.8-130 Senzene 2.21 0.050 mg/kg 2.00 110 86-128 Senzene 2.42 0.050 mg/kg 2.00 121 85.9-128 Senzene 2.42 0.050 mg/kg 4.00 118 89-129 Senzene 2.30 0.050 mg/kg 2.00 115 86.1-125 Senzene 2.30 0.050 mg/kg 2.00 115 86.1-125 Senzene 2.30 0.050 mg/kg 6.00 117 88.2-128 Senzene 2.14 0.050 mg/kg 0.0500 114 71.5-134 Senzene 2.14 0.050 mg/kg 2.00 113 86-128 Senzene 2.14 0.050 mg/kg 2.00 113 86-128 2.03 15.9 Senzene 2.14 0.050 mg/kg 2.00 113 86-128 2.03 15.9 Senzene 2.45 0.050 mg/kg 2.00 122 85.9-128 1.15 16 mp-Xylene 4.72 0.100 mg/kg 4.00 118 89-129 0.414 16.2 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7 Senzene 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30	Total BTEX	ND	0.300	mg/kg								
Senzene 2.11 0.050 mg/kg 2.00 106 82.8-130	Surrogate: 4-Bromofluorobenzene (PID)	0.0587		mg/kg	0.0500		117	71.5-134				
Foluene 2.21 0.050 mg/kg 2.00 110 86-128 Ethylbenzene 2.42 0.050 mg/kg 2.00 121 85.9-128 m.p-Xylene 4.70 0.100 mg/kg 4.00 118 89-129 D-Xylene 2.30 0.050 mg/kg 2.00 115 86.1-125 Fotal Xylenes 7.01 0.150 mg/kg 6.00 117 88.2-128 Eurrogate: 4-Bromofluorobenzene (PID) 0.0570 mg/kg 0.0500 114 71.5-134 LCS Dup (4083004-BSD1) Prepared & Analyzed: 30-Aug-24 LCS Dup (4083004-BSD1) Prepared & Analyzed: 30-Aug-24 <td cols<="" td=""><td>LCS (4083004-BS1)</td><td></td><td></td><td></td><td>Prepared &</td><td>Analyzed:</td><td>30-Aug-2</td><td>4</td><td></td><td></td><td></td></td>	<td>LCS (4083004-BS1)</td> <td></td> <td></td> <td></td> <td>Prepared &</td> <td>Analyzed:</td> <td>30-Aug-2</td> <td>4</td> <td></td> <td></td> <td></td>	LCS (4083004-BS1)				Prepared &	Analyzed:	30-Aug-2	4			
Ethylbenzene 2.42 0.050 mg/kg 2.00 121 85.9-128 mp-Xylene 4.70 0.100 mg/kg 4.00 118 89-129 p-Xylene 2.30 0.050 mg/kg 2.00 115 86.1-125 p-Xylene 8.2-128 p-Xylene 8.2-128 p-Xylene 8.2-128 p-Xylene 9.0500 117 88.2-128 p-Xylene 9.0500 117 88.2-128 p-Xylene 9.0500 117 82.8-130 1.40 15.8 p-Xylene 9.0500 mg/kg 2.00 118 86-128 2.03 15.9 p-Xylene 9.0500 mg/kg 2.00 118 89-129 0.414 16.2 p-Xylene 9.0500 mg/kg 2.00 116 86.1-125 0.432 16.7	Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130				
A-70	Toluene	2.21	0.050	mg/kg	2.00		110	86-128				
2.30 0.050 mg/kg 2.00 115 86.1-125 Fotal Xylenes 7.01 0.150 mg/kg 6.00 117 88.2-128 Surrogate: 4-Bromofluorobenzene (PID) 0.0570 mg/kg 0.0500 114 71.5-134 LCS Dup (4083004-BSD1) Prepared & Analyzed: 30-Aug-24 Senzene 2.14 0.050 mg/kg 2.00 107 82.8-130 1.40 15.8 Foluene 2.25 0.050 mg/kg 2.00 113 86-128 2.03 15.9 Ethylbenzene 2.45 0.050 mg/kg 2.00 122 85.9-128 1.15 16 m.p-Xylene 4.72 0.100 mg/kg 4.00 118 89-129 0.414 16.2 b-Xylene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7	Ethylbenzene	2.42	0.050	mg/kg	2.00		121	85.9-128				
Total Xylenes 7.01 0.150 mg/kg 6.00 117 88.2-128	m,p-Xylene	4.70	0.100	mg/kg	4.00		118	89-129				
Column C	o-Xylene	2.30	0.050	mg/kg	2.00		115	86.1-125				
Prepared & Analyzed: 30-Aug-24 Senzene 2.14 0.050 mg/kg 2.00 107 82.8-130 1.40 15.8 15.9 1	Total Xylenes	7.01	0.150	mg/kg	6.00		117	88.2-128				
Senzene 2.14 0.050 mg/kg 2.00 107 82.8-130 1.40 15.8	Surrogate: 4-Bromofluorobenzene (PID)	0.0570		mg/kg	0.0500		114	71.5-134				
Foluene 2.25 0.050 mg/kg 2.00 113 86-128 2.03 15.9 Ethylbenzene 2.45 0.050 mg/kg 2.00 122 85.9-128 1.15 16 m,p-Xylene 4.72 0.100 mg/kg 4.00 118 89-129 0.414 16.2 b-Xylene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7	LCS Dup (4083004-BSD1)				Prepared &	z Analyzed:	30-Aug-2	4				
Ethylbenzene 2.45 0.050 mg/kg 2.00 122 85.9-128 1.15 16 m,p-Xylene 4.72 0.100 mg/kg 4.00 118 89-129 0.414 16.2 b-Xylene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7	Benzene	2.14	0.050	mg/kg	2.00	-	107	82.8-130	1.40	15.8		
n,p-Xylene 4.72 0.100 mg/kg 4.00 118 89-129 0.414 16.2 b-Xylene 2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7	Toluene	2.25	0.050	mg/kg	2.00		113	86-128	2.03	15.9		
2.31 0.050 mg/kg 2.00 116 86.1-125 0.432 16.7	Ethylbenzene	2.45	0.050	mg/kg	2.00		122	85.9-128	1.15	16		
	m,p-Xylene	4.72	0.100	mg/kg	4.00		118	89-129	0.414	16.2		
Total Xylenes 7.04 0.150 mg/kg 6.00 117 88.2-128 0.420 16.3	o-Xylene	2.31	0.050	mg/kg	2.00		116	86.1-125	0.432	16.7		
	Total Xylenes	7.04	0.150	mg/kg	6.00		117	88.2-128	0.420	16.3		

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mg/kg

0.0500

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Celey D. Keene

Surrogate: 4-Bromofluorobenzene (PID)



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Spike

50.0

82.0

49.1-148

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 18-Sep-24 10:27

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

41.0

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4082912 - General Prep - Organics										
Blank (4082912-BLK1)				Prepared &	ե Analyzed:	29-Aug-2	1			
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	37.1		mg/kg	50.0		74.2	48.2-134			
Surrogate: 1-Chlorooctadecane	39.0		mg/kg	50.0		77.9	49.1-148			
LCS (4082912-BS1)				Prepared &	ն Analyzed:	29-Aug-2	1			
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	195	10.0	mg/kg	200		97.7	66.5-118			
Total TPH C6-C28	399	10.0	mg/kg	400		99.8	77.6-123			
Surrogate: 1-Chlorooctane	40.9		mg/kg	50.0		81.9	48.2-134			
Surrogate: I-Chlorooctadecane	42.1		mg/kg	50.0		84.1	49.1-148			
LCS Dup (4082912-BSD1)				Prepared &	ն Analyzed:	29-Aug-2	1			
GRO C6-C10	207	10.0	mg/kg	200		104	66.4-123	1.54	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.0	66.5-118	0.326	21	
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123	0.950	18.5	
Surrogate: 1-Chlorooctane	40.7		mg/kg	50.0		81.4	48.2-134			

mg/kg

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Surrogate: 1-Chlorooctadecane



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



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

Company Name: Ensolum, LLC		BWATTO	
Project Manager: Aimee Cole		P.O. #:	ANALTSIS REQUEST
Address: 3122 National Parks Hwy		Company: En SoluM. 11C	
City: Carlsbad	State: NM Zip: 88220		
Phone #: (720) 384-7365	Fax #:	Address:	
Project #: 03[2057/00	Project Owner:	City:	
Project Name: MC A 151		State: Zip:	
Project Location: 3d, 808,-	-103.7725	#	
Sampler Name: Morio Sal	JK, 5	Fax #:	
	MATRIX	PRESERV SAMPLING	_
	R		
Lab I.D. Sample I.D.	(feet) RAB OR (C)OM ONTAINERS OUNDWATER STEWATER L	HER : D/BASE: / COOL HER :	BTEX PH Chlorid
1 F524		J 116/26/8 /	708
2 FS 25	1 2	7	092)
3 50189	0-3 ()	\ \ \ \	0933
*			
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service. In no event shall Cardinal be liable for incidental or cor affiliates or successors arising out of or related to the performant	service. In no event shall Cardinal be included to the performance of services hereunder by Cardinal walked unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated neasons or otherwise.	received by Cardinal within 30 days after comp iss of use, or loss of profits incurred by client, it based upon any of the above stated reasons or the profits of the profits and the profits of the p	letton of the applicable substitution of the applicable substi
reminduismen by.	Date: Received By:	M Vei	Verbal Result: ☐ Yes ☐ No ☐ Add'! Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:	Mary Ma	a COTEDENSOIWM. COM/MSOILLY QUENSOIUM, LOM
	Time:	*	stones requested ID cham
Delivered By: (Circle One)	Observed Temp. °C 6 Sample Condition	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. C. S. q	(initials)	Cool Intact
FORM-000 K 3.2 10/07/21			

Corrected Temp. °C



September 10, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accredited 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 12 6	H245390-01	Soil	05-Sep-24 10:25	05-Sep-24 14:37
FS 30 6	H245390-02	Soil	05-Sep-24 10:26	05-Sep-24 14:37
FS 31 6	H245390-03	Soil	05-Sep-24 10:29	05-Sep-24 14:37
FS 32 5	H245390-04	Soil	05-Sep-24 10:35	05-Sep-24 14:37
FS 33 6	H245390-05	Soil	05-Sep-24 10:36	05-Sep-24 14:37
FS 26 6	H245390-06	Soil	05-Sep-24 10:38	05-Sep-24 14:37
FS 27 6	H245390-07	Soil	05-Sep-24 10:40	05-Sep-24 14:37
FS 28 5	H245390-08	Soil	05-Sep-24 10:41	05-Sep-24 14:37
FS 29 6	H245390-09	Soil	05-Sep-24 10:43	05-Sep-24 14:37
SW 16 0-6	H245390-10	Soil	05-Sep-24 10:54	05-Sep-24 14:37
SW 06 0-4	H245390-11	Soil	04-Sep-24 14:21	05-Sep-24 14:37

09/10/24 - The wrong depth was logged in for samples -04 and -08. This is the revised report and will replace the one sent earlier today, 09/10/24.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 12 6 H245390-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	528		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090537	JН	06-Sep-24	8021B	
Toluene*	0.179		0.050	mg/kg	50	4090537	JH	06-Sep-24	8021B	GC-NC1
Ethylbenzene*	1.25		0.050	mg/kg	50	4090537	JH	06-Sep-24	8021B	GC-NC1
Total Xylenes*	3.13		0.150	mg/kg	50	4090537	JH	06-Sep-24	8021B	GC-NC1
Total BTEX	4.56		0.300	mg/kg	50	4090537	JH	06-Sep-24	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5	-134	4090537	JH	06-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	121		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	1390		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	242		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			109 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 30 6 H245390-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	864		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	0.263		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	GC-NC1, QM-07
Total Xylenes*	0.731		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	GC-NC1
Total BTEX	0.994		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PIL	0)		119 %	71.5	-134	4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	34.7		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	522		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	75.2		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			119 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 31 6 H245390-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	5600		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	TD)		99.9 %	71.5	-134	4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			126 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 32 5 H245390-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		99.9 %	71.5-134		4090607	JH	06-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	178		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	40.7		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			131 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 33 6 H245390-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	71.5-134		4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	21.7		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.6 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celeg D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 26 6 H245390-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		102 %	71.5	-134	4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	97.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	31.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.1 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			127 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 27 6 H245390-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JН	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		102 %	71.5	-134	4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.3 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			117 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 28 5 H245390-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		106 %	71.5	-134	4090607	JH	06-Sep-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	568		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	176		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			131 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

FS 29 6 H245390-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		101 %	71.5	-134	4090607	JH	06-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

SW 16 0-6 H245390-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	ЈН	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		103 %	71.5	-134	4090607	ЈН	06-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

SW 06 0-4 H245390-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4090626	CT	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090607	JH	06-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	4090607	JH	06-Sep-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			98.9 %	48.2	-134	4090608	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4090608	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4090626 - 1:4 DI Water										
Blank (4090626-BLK1)				Prepared: ()6-Sep-24 A	analyzed: 09	9-Sep-24			
Chloride	ND	16.0	mg/kg							
LCS (4090626-BS1)				Prepared: ()6-Sep-24 A	analyzed: 09	9-Sep-24			
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4090626-BSD1)				Prepared: ()6-Sep-24 A	analyzed: 09	9-Sep-24			
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

		recporting		Spine						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4090537 - Volatiles										
Blank (4090537-BLK1)				Prepared: 0)5-Sep-24 A	nalyzed: 0	6-Sep-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.3	71.5-134			
LCS (4090537-BS1)				Prepared: ()5-Sep-24 A	nalyzed: 0	6-Sep-24			
Benzene	1.50	0.050	mg/kg	2.00		75.2	82.8-130			BS-
Toluene	1.42	0.050	mg/kg	2.00		70.9	86-128			BS-
Ethylbenzene	1.46	0.050	mg/kg	2.00		72.8	85.9-128			BS-
m,p-Xylene	2.89	0.100	mg/kg	4.00		72.3	89-129			BS-
o-Xylene	1.42	0.050	mg/kg	2.00		70.8	86.1-125			BS-
Total Xylenes	4.31	0.150	mg/kg	6.00		71.8	88.2-128			BS-
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.2	71.5-134			
LCS Dup (4090537-BSD1)				Prepared: ()5-Sep-24 A	nalyzed: 0	6-Sep-24			
Benzene	1.85	0.050	mg/kg	2.00		92.4	82.8-130	20.5	15.8	QR-0
Toluene	1.73	0.050	mg/kg	2.00		86.7	86-128	20.0	15.9	QR-0
Ethylbenzene	1.78	0.050	mg/kg	2.00		88.8	85.9-128	19.9	16	QR-0
m,p-Xylene	3.53	0.100	mg/kg	4.00		88.3	89-129	19.9	16.2	BS-3, QR-0
o-Xylene	1.72	0.050	mg/kg	2.00		86.1	86.1-125	19.5	16.7	QR-0
Total Xylenes	5.25	0.150	mg/kg	6.00		87.5	88.2-128	19.8	16.3	BS-3, QR-0
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.1	71.5-134			
Batch 4090607 - Volatiles										
Blank (4090607-BLK1)				Prepared &	Analyzed:	06-Sep-24				

Blank (4090607-BLK1)			
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. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
1 mayee	resure	Ellint	Omts	Ecver	resure	7 GREEC	Limits	ПОВ	- Emili	110103
Batch 4090607 - Volatiles										
Blank (4090607-BLK1)				Prepared &	Analyzed:	06-Sep-24	ļ			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.8	71.5-134			
LCS (4090607-BS1)				Prepared &	Analyzed:	06-Sep-24	ļ			
Benzene	1.67	0.050	mg/kg	2.00		83.3	82.8-130			
Toluene	1.68	0.050	mg/kg	2.00		84.0	86-128			BS-3
Ethylbenzene	1.66	0.050	mg/kg	2.00		82.9	85.9-128			BS-3
m,p-Xylene	3.57	0.100	mg/kg	4.00		89.2	89-129			
o-Xylene	1.66	0.050	mg/kg	2.00		83.1	86.1-125			BS-3
Total Xylenes	5.23	0.150	mg/kg	6.00		87.1	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	71.5-134			
LCS Dup (4090607-BSD1)				Prepared &	Analyzed:	06-Sep-24				
Benzene	1.86	0.050	mg/kg	2.00		93.0	82.8-130	10.9	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.6	86-128	10.8	15.9	
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.2	85.9-128	10.7	16	
m,p-Xylene	3.94	0.100	mg/kg	4.00		98.5	89-129	9.92	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		92.0	86.1-125	10.2	16.7	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	88.2-128	10.0	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.1	71.5-134			

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Celey D. Keine



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctadecane

Project: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102

Spike

Level

50.0

Source

Result

%REC

103

49.1-148

Project Manager: AIMEE COLE

Fax To:

Reported: 10-Sep-24 16:00

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

51.6

rmaryte	resure	Limit	Omto	Dever	recourt	70ICLC	Limits	пар	Limit	110105
Batch 4090608 - General Prep - Organics										
Blank (4090608-BLK1)				Prepared &	k Analyzed:	06-Sep-24	1			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	48.2-134			
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0		96.1	49.1-148			
LCS (4090608-BS1)				Prepared &	a Analyzed:	06-Sep-24	1			
GRO C6-C10	196	10.0	mg/kg	200		98.1	66.4-123			
DRO >C10-C28	191	10.0	mg/kg	200		95.4	66.5-118			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	77.6-123			
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148			
LCS Dup (4090608-BSD1)				Prepared &	k Analyzed:	06-Sep-24	1			
GRO C6-C10	191	10.0	mg/kg	200		95.5	66.4-123	2.65	17.7	
DRO >C10-C28	190	10.0	mg/kg	200		94.9	66.5-118	0.531	21	
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	77.6-123	1.60	18.5	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			

mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

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

QR-04

** 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

The RPD for the BS/BSD was outside of historical limits.

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

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Celey D. Keene

Relinquished By:

Received By:

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

Observed Temp.

CHECKED BY: (Initials)

* Customer

acoleGensolum, com,

msackis@ensoum.com rateal I D Change

Bacteria (only) Sample Condition

Corrected Temp. °C Observed Temp. °C 1.20

PLE



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

men vuenmon	Company Name: Ensolum 11C	The second secon			
Project Manager: Aimee Cole	r: Aimee Cole			P.O. #:	ANALISIS REGUESI
Address: 3122	Address: 3122 National Parks Hwy			Company: Ensolum, LLC	
City: Carlsbad		State: NM	Zip: 88220	Attn: A Mee Cole	
Phone #: (720) 384-7365	384-7365	Fax #:		Address:	
Project #: 03	Project #: 03 \(205 \) 7/02	Project Owner:		City:	
Project Name: MC.	MCA 151			State: Zip:	
Project Location	Project Location: 32.808, -103.	03.7705		#	
Sampler Name:	Mario Sarki			Fax #:	
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	
		Denth	RS TER ER		X
Haysand	700	(feet)	(G)RAB OI # CONTAII GROUNDN WASTEWA SOIL OIL SLUDGE	OTHER: ACID/BASI CE / COO OTHER: DATE	BTE
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עפ	£530	0	7 17		
V	FS3) *	0	7 1 7	1000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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6	F526	0	0 1 1	6 1038	
7	FS27	0	2	1 1040	
00-	8853	S	7 17	1,011	
9	F529	0	7 1	1, 1043	
10	SW16	0-6	0 1	4	

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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	476				
Company Name: Ensolum, LLC	Ensolum, LLC			OL TIME		ANALYSIS REQUEST	
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy			company: Ensolumite	MICE		
City: Carlsbad		State: NM	Zip: 88220	Attn: Aimee Cole	0		_
Phone #: (720) 384-7365	84-7365	Fax #:		Address:			
Project #: 03E2057102	E0057102	Project Owner:	a .	City:			
Project Name: /	MCA 151			State: Zip:			
~	-	-103.7725		#:			
Sampler Name:	Mario Sarki	スン		Fax #:			
FOR LAB USE ONLY	- 1		MATRIX	ESERV.	SAMPLING		
Lab I.D. H345390	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chloride		
//	SWOE	11-0	-	· ·	1421 11 11 1		
	/						
		T					
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PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Ca	Damages. Cardinal's liability and those for negligence and any of dinal be liable for incidental or co	client's exclusive remedy for a her cause whatsoever shall be nsequental damages, including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 consequental damages, including without limitation, business interruptions, loss of use, or toss of profits incurred by client, its subsidiaries,	or tort, shall be limited to the amount pak d received by Cardinal within 30 days after loss of use, or loss of profits incurred by c	by the client for the completion of the applicable lent, its subsidiaries,		l
Relinquished By:) 'W		Page: AN Received By:	, ,	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	o Add'I Phone #: provide Email address:	
1111)	11me: 437	X	TRANCO	acole Bensolum, co	SOLUM, COM/MSQSKISBONSOLUM.COM	
Relinquished By:		Date:	Received By:	7	REMARKS:		
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition	ion CHECKED BY: (Initials)	Turnaround Time: Standard		
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Sex Sex T	\sim	3	\rangle Yes Yes	

Page 20 of 20



September 11, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/09/24 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/09/2024 Sampling Date: 09/09/2024

Reported: 09/11/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

A I J 711

Project Location: 32.808, -103.7725

Sample ID: FS 18 6.5 (H245439-01)

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	09/10/2024	ND	1.79	89.4	2.00	3.56	
Toluene*	0.089	0.050	09/10/2024	ND	1.74	87.1	2.00	3.46	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.77	88.3	2.00	4.01	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.28	88.0	6.00	4.37	
Total BTEX	<0.300	0.300	09/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/10/2024	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	09/10/2024	ND	198	98.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	178	88.8	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene

S-04



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

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/09/2024 Sampling Date: 09/09/2024

Reported: 09/11/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: FS 20 9 (H245439-02)

BTEX 8021B

	9	9	71.14.1, = 0						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.29	0.500	09/10/2024	ND	1.79	89.4	2.00	3.56	GC-NC1
Toluene*	19.6	0.500	09/10/2024	ND	1.74	87.1	2.00	3.46	
Ethylbenzene*	25.8	0.500	09/10/2024	ND	1.77	88.3	2.00	4.01	
Total Xylenes*	46.5	1.50	09/10/2024	ND	5.28	88.0	6.00	4.37	
Total BTEX	93.3	3.00	09/10/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	140	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	09/10/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	795	10.0	09/10/2024	ND	198	98.9	200	2.48	
DRO >C10-C28*	2690	10.0	09/10/2024	ND	178	88.8	200	12.9	
EXT DRO >C28-C36	396	10.0	09/10/2024	ND					
Surrogate: 1-Chlorooctane	159	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/09/2024 Sampling Date: 09/09/2024

Reported: 09/11/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Alyssa Parras

Project Location: 32.808, -103.7725

Sample ID: FS 21 6.5 (H245439-03)

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	09/10/2024	ND	1.79	89.4	2.00	3.56	
Toluene*	<0.050	0.050	09/10/2024	ND	1.74	87.1	2.00	3.46	
Ethylbenzene*	0.051	0.050	09/10/2024	ND	1.77	88.3	2.00	4.01	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.28	88.0	6.00	4.37	
Total BTEX	<0.300	0.300	09/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/10/2024	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	09/10/2024	ND	198	98.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	178	88.8	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/09/2024 Sampling Date: 09/09/2024

Reported: 09/11/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Project Location: 32.808, -103.7725

Sample ID: SW 12 4-6.5 (H245439-04)

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	09/10/2024	ND	1.79	89.4	2.00	3.56	
Toluene*	<0.050	0.050	09/10/2024	ND	1.74	87.1	2.00	3.46	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.77	88.3	2.00	4.01	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.28	88.0	6.00	4.37	
Total BTEX	<0.300	0.300	09/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	09/10/2024	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	09/10/2024	ND	198	98.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	178	88.8	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/09/2024 Sampling Date: 09/09/2024

Reported: 09/11/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Alyssa Parras

Project Location: 32.808, -103.7725

Sample ID: SW 11 4-9 (H245439-05)

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	09/10/2024	ND	1.79	89.4	2.00	3.56	
Toluene*	<0.050	0.050	09/10/2024	ND	1.74	87.1	2.00	3.46	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.77	88.3	2.00	4.01	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.28	88.0	6.00	4.37	
Total BTEX	<0.300	0.300	09/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/10/2024	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	09/10/2024	ND	198	98.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	178	88.8	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keine

S-04

RPD



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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

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

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

*** Insufficient time to reach temperature.

Relative Percent Difference

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

Sampler - UPS - Bus - Other:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Sampler - UPS - Bus - Other:	Delivered By: (Circle One)	Relinquished By: Relinquished By: Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and ci pleases. All claims including those for negligence and any other analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or cons		Swill	5 SW/2	\ ~	1545H	Lab I.D. Sample I.D.	FOR LAB USE ONLY	12	10 x Ch	57/02	384-7365		ddress: 3122 National Parks Hwy	roject Manager: Aimee Cole	ompany Name: Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
06	Sample Condition Cool Intact In yes 1+Yes	Date: A 4/24 Time: 39 WDO LO Date: Received By:	nt's exclusive remedy for any august whatsoever shall be decause whatsoever shall be decause whatsoever shall be decaused including work of services hereunder by Can			H-6,5 C 1 V	6.5	#	G)RAB OR (C)OI CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	٦		-103: 7725 Phone #:	Project Owner: State:		State: NM Zip: 88220 Address:	Company.	. N	P.O.#:	
Dcardinallabsnm.com	Standard W Rush W H1-1-0 (48-NC	Bensolum, com/ms	led to the amount pau by the supplicable nal within 30 days after completion of the applicable of profits incurred by client, its subsidiaries, of the above stated reasons or otherwise. Verbal Result: Verbal Result: Pes No Add'l Phone #:	and the the		1 1 85b0 A	Dash A S S A S A S A S A S A S A S A S A S	0.5b0 0.5b0 0.5b0	DATE TIME BTE		SAMPLING		Zip:			6/016	JEU 201 MW, LLC		ANALYSIS REC
	Bacteria (only) Salliple Consumer. C Cool Intact Observed Temp. C Ves Yes Yes No No Corrected Temp. C	S QEASOLUM.COM	ζή.																REQUEST



September 16, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Sampling Date: 09/12/2024

Reported: 09/16/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: 32.808, -103.7725

Sample ID: FS 20 9.5' (H245526-01)

DTEV 0021D

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	09/13/2024	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	09/13/2024	ND	221	111	200	0.924	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	211	106	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal® liability and client® 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Reported:

09/16/2024

Project Name: MCA 151 FLOWLINE RELEASE Project Number: 03E2057102

Project Location: 32.808, -103.7725 Sampling Date: 09/12/2024

Sampling Type: Soil

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

Sample ID: FS 12 7' (H245526-02)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/13/2024	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	09/13/2024	ND	221	111	200	0.924	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	211	106	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

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

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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	6	TAN (3/3) 333-24/6	+/0					
Company Name: Ensolum, LLC	Ensolum, LLC			OLTHE		ANALYSIS	SIS REQUEST	
Project Manager: Aimee Cole	Aimee Cole			P.O. #:				\exists
Address: 3122 N	Address: 3122 National Parks Hwy			Company: ENSOIMM, LLC	1111			
City: Carlsbad		State: NM	Zip: 88220	Attn: ATMER COLE	16			
Phone #: (720) 384-7365	34-7365	Fax #:		Address:				_
Project #: 03E2057/02	2057/02	Project Owner:		City:				_
Project Name: /	MCA 15-1			State: Zip:				
Project Location:	32,808,	-103, 7725	9	#				
Sampler Name:	Mariosa			Fax #:		-		_
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	5		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH	Chloride		
b-	1530	9,5	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1007			
5	3		(METELA	10001			
						7		
					111	7		
LASE NOTE: Liability and Dilyses. All claims including trice. In no event shall Cardi	amages. Cardinal's liability and clie to the control of the contro	nt's exclusive remedy for any ause whatsoever shall be de quental damages, including y	r claim arising whether based in contrac semed waived unless made in writing ar without limitation, business interruptions.	ASSE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client to the electric tort, and the liability of the client is cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable rivice. In no event shall Cardinal be liable for incidental or consequential damages, including without firmitation, business interruptions, toss of uses or toos of profits incurred the client its subsciences.	by the client for the completion of the applicable int its substitutions.			
elinquished By:	7	Date: 13110	Received By:	Date: A/1/2/34 Received By: Time: 3 0	Sons or otherwise. Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:	□ No Add'l Phone #:	No A COLE DE PARTICIO METATA A MARCA CARA CARA CARA CARA CARA CARA	
elinquished By:		Date: Time:	Received By:	0	REMARKS:		000000000000000000000000000000000000000	
Delivered By: (Circle One)		Observed Temp. °C 4, 9	Sample Condition	CHECKED BY:		-	lly) S	
ampler - UPS - Bus - Other:		Corrected Temp. °C		Ryans	Thermometer ID #113	N S	☐ Yes	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinaffa6snm.com

Page 5 of 5



September 16, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Sampling Date: 09/12/2024

Reported: 09/16/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: FS 34 13' (H245527-01)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	0.152	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	0.423	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	0.575	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2024	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*	29.7	10.0	09/13/2024	ND	221	111	200	0.924	
DRO >C10-C28*	1610	10.0	09/13/2024	ND	211	106	200	3.56	
EXT DRO >C28-C36	402	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



09/12/2024

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Sampling Date:

Reported: 09/16/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Project Location: 32.808, -103.7725

Sample ID: SW 18 8-13' (H245527-02)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2024	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	09/13/2024	ND	221	111	200	0.924	
DRO >C10-C28*	212	10.0	09/13/2024	ND	211	106	200	3.56	
EXT DRO >C28-C36	119	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	18						

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Celey D. Keene



Notes and Definitions

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

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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

FURIVI-000 K 3.2 10/07/2	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability an analyses. All claims including those for negligence and any o service. In no event shall Cardinal be falsh for incidental or affiliates or successors arising out of or related to the perform			81MS 6	F534	ESSET.	Lab I.D. Sample I.D.		Sampler Name: Mosio	9	Project Name: MCA 15	Project #: 03/23057103	Phone #: (720) 384-7365	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Aimee Cole	(5/5) 393-23 Company Name: Ensolum, LLC
† Cardinal cannot accept verbal changes.	Sample Condition Corrected Temp. C4.3 C Pres Tes Corrected Temp. C4.3 C No No	Date: Received By:	Times 210 Stodio	d client's exclusive remedy for any ther cause whatsoever shall be de- onsequental damages, including w ance of services hereunder by Car			8-13 C1 V		# COM GROU WAST SOIL OIL SLUD OTHE	(feet) B OR (C)OM ITAINERS JINDWATER TEWATER GE ER: BASE:	MATRIX	CKI'S Fax	28, -103, 7725 Phone #:	State:	Project Owner: City:	Fax #: Address:	State: NM Zip: 88220 Attn: /	Compa	P.O. #:	(5/5) 393-2326 FAX (5/5) 393-24/0
Cardinal cannot accept verbal changes. Please email changes to celey.keene@kardinallaberfin.com	CHECKED BY: Turnaround Time: Standard Coordinates Correction Factor Correction Facto		All Results are emailed. Please provid A LOIC D ENSOINM, LOM	to le limited to the amount paid by the client for the large state of the samount paid by the client to the young after completion of the applicable or loss of profits incurred by client, its subsidiaries, on any of the above stated reasons or otherwise. I Vehal Result: Yes No Add'l Phone #:		3000	V WIJAN ION V V V	M2/24 1056 V, V	DATE TIME	TEX PH	PRESERV. SAMPLING		#:	Zip:		SS:	Aimee COR	any: AEMSOLUM, LLC		ANALYSIS ANALYSIS
	Cool Intact Observed Temp. °C Yes Yes		M SOLKIZE ENSO/UM LOM	ne#:																IS REQUEST



September 17, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Sampling Date: 09/12/2024
Reported: 09/17/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)

Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SW - 18 0-4' (H245532-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	u 2 y : 3 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.22	111	2.00	1.39	
Toluene*	<0.050	0.050	09/14/2024	ND	2.26	113	2.00	0.628	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.26	113	2.00	0.0666	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	6.94	116	6.00	0.263	
Total BTEX	<0.300	0.300	09/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	201	100	200	1.17	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/12/2024 Sampling Date: 09/12/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: ** (See Notes)
Project Number: 03E2057102 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.808, -103.7725

Sample ID: SW - 18 4-8' (H245532-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.22	111	2.00	1.39	
Toluene*	<0.050	0.050	09/14/2024	ND	2.26	113	2.00	0.628	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.26	113	2.00	0.0666	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	6.94	116	6.00	0.263	
Total BTEX	<0.300	0.300	09/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	201	100	200	1.17	
DRO >C10-C28*	14.4	10.0	09/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal§ liability and clients 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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

C	(0.0) 000		
Company Name: Ensolum, LLC		ANALYSIS REQUEST	
rroject Manager: Almee Cole			1
Address: 3122 National Parks Hwy		Company: FNSO) WM/22C	
City: Carlsbad	State: NM Zip: 88220	Attn: A-Mee Cole	
Phone #: (720) 384-7365	Fax #:	SS:	
Project #: 03E2057102	Project Owner:	City:	
Project Name: MCA 15-1		State: Zin:	
8	7778	#	
Sampler Name: MOSTO SOFKIS	36	For #.	_
10111			_
TON LAB USE ONLY		PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	BLUDGE DTHER: ACID/BASE: CE/COOL DTHER: DATE CHICAGO CH	
1 SW/8	- #	1 050 helph	
1000	1-8 6-1	1051	
ANDE NOT IET. LIBRITIN and Damages. Cardinal's liability and cli- lyses. All claims including those for negligence and any other fice. In no event shall Cardinal be liable for indental or consu- stes or successors arising out of or related to the performance	CASE NOTE: Labring and Damages, Cordinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the lyses. 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 all wide. In no event shall Cardinal be label for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, all the contractions of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the profits incurred by client, its subsidiaries, and the contraction of the co	ADSC NOTE: Labring and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the lyes. All claims including those for negligence and any other cause whatsovers shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable label for incidental or consequental damages, including without limitation, business interruptions, loss of use, or toss of profits incurred by client, its subsidiaries, provided to the performance of services thereunder by Cardinal reparatless of whether such schoims have designed by Cardinal reparatless of whether such schoims have designed by Cardinal reparatless of whether such schoims have designed by Cardinal reparatless of the same designed by Cardinal reparatless of	E
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impler - UPS - Bus - Other: Co	orrected Temp. °C 4.3 Les 1768	(Initials) Thermometer ID #119	
FUKM-000 K 3.2 10/0/121		Corrected Temp. °C	

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

Corrected Temp. °C

Page 5 of 5



September 18, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.808, -103.7725

Sample ID: BACKFILL (H245604-01)

DTEV 0021D

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/17/2024	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	09/16/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(0.0) 000			
Company Name: Ensolum, LLC		01 771B	ANALYSIS REQUEST	
Project Manager: Aimee Cole		P.O. #:		1
Address: 3122 National Parks Hwy		Company: E/So/WM/LLC	WILL	
City: Carlsbad	State: NM Zip: 88220			_
hone #: (720) 384-7365	Fax #:	Addres		
roject #: 03E2057/02	Project Owner:	City:		
roject Name: MCA 15)		State: Zip:		
roject Location: 32,808,-103,	3.7725	#		
Sampler Name: Malio Salkis	,	Fay #:		
		rax #:		
FOR LABUSE ONLY		MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)OMI	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: CE/COOL OTHER:	BTEX TPH Chlori	
Backfall	-	7	-	
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lyses. All claims including those for negligence and any other fice. In no event shall Cardinal be liable for incidental or consta ates or successors arising out of or related to the performance	itents exclusive remedy for any claim arising y r cause whatsoever shall be deemed waived, equental damages, including without limitation e of services hereunder by Cardinal, regardle	byes. 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 rice. In no event shall Cardinal be liable for incidental or consequental damages, including which the 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 hereunder by Cardinal recardless of whother such daims to be a transport of the performance of services hereunder by Cardinal recardless of whother such daims to be a transport of the services.	id by the client for the er completion of the applicable client, its subsidiaries,	L
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	Time:			
	Dog Composition of the compositi	Sample Condition CHECKED BY: Cool Intact (Initials)	Bacteria (only) S	
mpler - UPS - Bus - Other: Co	Corrected Temp. °C	es lo	Thermometer ID #113 #1/10 Cool Infact Observed Temp. °C Correction Feator 425°C -0.00 No Corrected Temp. °C	



September 19, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SB - 12 16 (H245605-01)

BTEX 8021B

DIEXOGEID	9/	119	Andryzo	u 2 y . 3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	QR-03
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	QR-03
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/17/2024	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	09/16/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 F	(575) 393-2326 FAX (575) 393-2476	GWW TO	ANALYSIS REQUEST
Company Name: Ensolum, LLC			
Project Manager: Aimee Cole		P.O. #:	
Address: 3122 National Parks Hwy			22
City: Carlsbad	State: NM Zip: 88220	Attn: ATMER COLE	
Phone #: (720) 384-7365	Fax #:	Address:	
Project #: 03E2057103	Project Owner:	City:	
Project Name: MCA 151		State: Zip:	
808	105,7725	Phone #:	
	えん	Fax #:	,,5
	50	PRESERV. SAMPLING	<i>e</i>
FOR LAB USE ONLY			
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlor
1 58-12			
		>00M	
PLEASE NOTE: Liability and Damages. Cardinal's liability an analyses. All claims including those for negligence and any o	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 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	act or tort, shall be limited to the amount paid by the c and received by Cardinal within 30 days after comple ns, loss of use, or loss of profits incurred by client, its s	lient for the ton the splicable subsidiaries,
Service. In no event state contains to make or affiliates or successors arising out of or related to the perform Relinquished By:	ors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such dalm is based upon any of the above stated or services hereunder by Cardinal, regardless of whether such dalm is based upon any of the above stated by: Date	im is based upon any of the above stated resource of Verh	lt: ☐ Yes ☐ No re emailed. Please pro
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	Time:		
Delivered By: (Circle One)	Observed Temp. °C Sample Condition Cool Intact	CHECKED BY: (Initials)	ne: Standard C
Sampler - UPS - Bus - Other:	Corrected Temp. C	\$ 5	Thermometer ID #143 77 70 No Corrected Temp. °C No No Corrected Temp. °C



September 19, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

A ... - b ... - d D. .. 711

Project Location: 32.808, -103.7725

Sample ID: SB - 12 11' (H245606-01)

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	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/17/2024	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	09/16/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



09/13/2024

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Reported: 09/19/2024

Sampling Date:
Sampling Type:

Sampling Condition:

Sample Received By:

Project Name: MCA 151 FLOWLINE RELEASE
Project Number: 03E2057102

ma/ka

Project Location: 32.808, -103.7725

Sample ID: SB - 12 14' (H245606-02)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/17/2024	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	09/16/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.808, -103.7725

ma/ka

Sample ID: SB - 2 10' (H245606-03)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 09/17/2024	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	09/17/2024						- Qualifier
<0.050			ND	2.24	112	2.00	5.71	
	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
<0.300	0.300	09/17/2024	ND					
117 9	% 71.5-13	4						
mg,	/kg	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
272	16.0	09/17/2024	ND	416	104	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/17/2024	ND	208	104	200	5.11	
<10.0	10.0	09/17/2024	ND	202	101	200	4.18	
<10.0	10.0	09/17/2024	ND					
109	% 48.2-13	4						
114	% 49.1-14	8						
	<0.050 <0.150 <0.300 117 9 mg/ Result 272 mg/ Result <10.0 <10.0 109 9	<0.050 0.050 <0.150 0.150 <0.300 0.300 117 % 71.5-13 mg/ky Result Reporting Limit 272 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 10.0 48.2-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Project Number: 03E2057102 Sample Received By: Alyssa Parras

Project Location: 32.808, -103.7725

Sample ID: SB - 2 14' (H245606-04)

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	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
Ethylbenzene*	< 0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/17/2024	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	09/17/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	6 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Reported: 09/19/2024

09/19/2024

mg/kg

Project Name: MCA 151 FLOWLINE RELEASE

Project Number: 03E2057102 Project Location: 32.808, -103.7725 Sampling Date: 09/13/2024

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: SB - 13 9' (H245606-05)

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	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/17/2024	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	09/17/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/13/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.808, -103.7725

mg/kg

Sample ID: SB - 13 12' (H245606-06)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.24	112	2.00	5.71	
Toluene*	<0.050	0.050	09/17/2024	ND	2.35	117	2.00	0.614	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.56	128	2.00	0.262	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	7.73	129	6.00	0.958	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	208	104	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey & Keene



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC		BINATIO	
Project Manager: Aimee Cole		P.O. #:	ANALISIS REQUEST
Address: 3122 National Parks Hwy		Company: FASIUM, LLC	
City: Carlsbad	State: NM Zip: 88220	Attn: ATMER COIR	
Phone #: (720) 384-7365	Fax #:	SS:	
Project #: 03 6205 710 2	Project Owner:	City:	
Project Name: (MCA 15)		State: Zin:	
Project Location: 32,808, -103.	387728	#	
2	5.43		
FOR LAB USE ONLY	MATRIX	ESERV. SAMPLING	
Lab I.D. Sample I.D.	(feet) OR (C)OMP FAINERS IDWATER WATER	ASE: POOL (njorigi
phashop	(G)RAB # CONT GROUN	OTHER ACID/BACCE/COTHER DATE	
_	61	J 4/13/24 C	
	19	1032 V V	
		<	
2000	1001	1122 / /	
		1 Ser 1	
>6-13	<u> </u>	<	
EASE NOTE: Liability and Damages. Cardinal's liability and o alyses. All claims including those for negligence and any othe vice. In no event shall Cardinal be liable for incidental or cons	EASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the alyses. 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 in the contract of the process of the pr	r tort, shall be limited to the amount paid by the client for the received by Cardinal within 30 days after competion of the applicable	
elinquished By:	coll services hereunder by Cardinal, regardless of whether such claim is based upon any of the Date; $\frac{1}{2}$ / $\frac{1}{2}$ Received By:	llt: ☐ Yes	No Add'i Bhoo #:
1011	1.20	All Results are emailed. Please provide Email address:	se provide Email address:
elinquished By:	Date: Received By:	REMARKS:	.com/msxxxiseensolmm.com
	Time:		
(Circle One)	Observed Temp. °C Sample Condition Cool Intact	CHECKED BY: Turnaround Time:	Standard M Bacteria (only) Sample Condition
ampler - UPS - Bus - Other: Co	Yes	#13	
- ONM-000 K 3.Z 10/0/1/Z1	2000	Correction Factor 450 -0.00	0 Corrected Temp. °C



September 17, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/16/2024 Reported: 09/17/2024

MCA 151 FLOWLINE RELEASE

Project Name: MCA 151 FLC
Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sampling Date: 09/16/2024

Sampling Type: Soil

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

Sample ID: FS 34 14 (H245625-01)

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	09/17/2024	ND	2.17	108	2.00	5.65	
Toluene*	<0.050	0.050	09/17/2024	ND	2.07	103	2.00	6.26	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.06	103	2.00	6.84	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	7.27	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/17/2024	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	09/17/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	212	10.0	09/17/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	45.2	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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, LLC	C		BILL TO			
Project Manager: Aimee Cole			P.O. #:		ANALTSIS REQUEST	1
Address: 3122 National Parks Hwy	Hwy		Company: EnsolwM, LLC	W.11.		_
City: Carlsbad	State: NM	Zip: 88220		0		_
hone #: (720) 384-7365	Fax #:		Address:			_
roject #: 03E2057/02	이지 Project Owner:		City:			_
roject Name: MCA 151			State: Zip:			
roject Location: 32, 808,	8,-103,7725		#			_
Sampler Name: Masio Saski	3/65		Fax #:			_
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			_
Lab I.D. Sample I.D.		WATER				
auguas	(reet)	# CONTA GROUND WASTEW SOIL DIL SLUDGE	OTHER: ACID/BAS CE / COC OTHER:	BTI TP+ Chi		
1 1534	14		1	1356 100		
				1		
ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the lyses. 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 anotice blacks.	ility and client's exclusive remedy for any rany other cause whatsoever shall be de	claim arising whether based in contract or to emed waived unless made in writing and rec	ort, shall be limited to the amount paid by served by Cardinal within 30 days after co	the client for the smallership		
ales or successors arising out of or related to the performance of services hereunder by Cardinal, business interruptions, loss of use, or toss of profits incurred by client, its subsidiaries, blinguished, By: Stringuished, By: Date: Received By: Recei	art or consequental damages, including warformance of services hereunder by Car Date:	ing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated **Received By: Received By:	of use, or loss of profits incurred by clien ssed upon any of the above stated reason		1	
1	4/16/2W		A	All Results are emailed. Please pro	Please provide Email address:	
linquished By:	Date:	Received By:	R	-	1)MSaskis@ensolum.com	
	Time:					
elivered By: (Circle One)	T.mp. °C.	O S	CHECKED BY: Tu	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool Infact Observed Term °C	
	Corrected lemp. C	1.8 No No No	#3.	Thermometer ID #43#40 24-W	☐ Yes ☐ Yes ☐ No ☐ No	
	+ Cardinal car	Cardinal cannot accept verbal chance	NA DIAMAA AMAA'I ALAMAA			L



October 03, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 151 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/27/2024 Sampling Date: 09/27/2024

Reported: 10/03/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: 32.808, -103.7725

Sample ID: SB - 17 0-0.5' (H245901-01)

DTEV 0021D

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	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTEX	<0.300	0.300	09/30/2024	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	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/27/2024 Sampling Date: 09/27/2024

Reported: 10/03/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057102 Tamara Oldaker

Project Location: 32.808, -103.7725

Sample ID: SB - 17 0.5-1.0' (H245901-02)

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	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTEX	<0.300	0.300	09/30/2024	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	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/27/2024 Sampling Date: 09/27/2024

Reported: 10/03/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057102 Sample Received By: Tamara Oldaker

Project Location: 32.808, -103.7725

Sample ID: SB - 18 0-0.5' (H245901-03)

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	09/30/2024	ND	2.02	101	2.00	1.28	
Toluene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	0.377	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	0.539	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.25	104	6.00	0.793	
Total BTEX	<0.300	0.300	09/30/2024	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	16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	18						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/27/2024 Sampling Date: 09/27/2024

Reported: 10/03/2024 Sampling Type: Soil

Project Name: MCA 151 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03E2057102

Project Location: 32.808, -103.7725

Sample ID: SB - 18 0.5-1.0' (H245901-04)

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	10/01/2024	ND	1.95	97.3	2.00	2.58	
Toluene*	<0.050	0.050	10/01/2024	ND	2.01	100	2.00	2.54	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.02	101	2.00	2.58	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.05	101	6.00	2.49	
Total BTEX	<0.300	0.300	10/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	32.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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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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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

Company Name: Encolum 110	(1.0) 000 2110		
Project Manager: Aimon Colo		OL TRIB	ANALYSIS REOLIECT
- Communager Aillies COIS		P.O. #:	
Address: 3122 National Parks Hwy		Company: FDSJUM.LI	
City: Carlsbad	State: NM Zip: 88220	51	
Phone #: (720) 384-7365	Fax #:	S)	
Project #: 0350057/02	Project Owner:	City:	
Project Name: MCA (5)		State: Zin:	
Project Location: 32, 408,	103.7725	#:	
Sampler Name: MAGIO SACKI	3	Fax#:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	5
	C)OMP. RS TER		îte
Lab I.D. Sample I.D. 4245901	(G)RAB OR (C)# CONTAINER GROUNDWAT WASTEWATER GOIL DIL SLUDGE	DTHER: CCID/BASE: CE/COOL DTHER: BTEX	Chlori
258-17		11 NE/LE/b 1	
358-18	0-0,5	1	
4 58-18		5011	
ASE NOTE: Liability and Damages. Cardinal's liability and clies been for negligence and any other c	ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any datin arising whether based in contract or tort, shall be limited to the amount paid by the client for the	tort, shall be limited to the amount paid by the client for the	
Plinquished By:	Plinquished By: Date: A 7/3/3 Received By: Received By:	based upon any of the above stated reasons or otherwise. Verbal Result: Yes	es □ No □ Add'l Phone #:
linguished By:	Date: Received By:	REMARKS: All Results are emailed REMARKS:	All Results are emailed. Please provide Email address: SLOTECENSOLUM, COM/MSa(KISCENSO)VM, COM REMARKS:
elivered By: (Circle One)	1.mp.°C 36 8	CHECKED BY: Turnaround Time:	ıly) S
00 K 3.Z 10/0//Z1	† Cardinal cannot accept worker the	Thermometer ID #445 #	Yes Yes No Corrected Temp. °C

<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 392412

QUESTIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420871904
Incident Name	NAPP2420871904 MCA UNIT #151 @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source					
Please answer all the questions in this group.					
Site Name	MCA Unit #151				
Date Release Discovered 07/26/2024					
Surface Owner	Federal				

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				

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or 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: Human Error Pipeline (Any) Produced Water Released: 50 BBL Recovered: 30 BBL Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	An unmarked produced water line was struck during remediation/excavation activities for Incident ID nAPP2328619341. The majority of the released fluids were contained within the open excavation.

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 392412

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a Fe, NM 87505
QUES:	TIONS (continued)
Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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. 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	a safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	t 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.
	sel didation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	y knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface ort 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: Aimee Cole Email: acole@ensolum.com Date: 10/14/2024

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**

QUESTIONS, Page 3

Action 392412

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 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	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between ½ and 1 (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 pro-	rovided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	d Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 CI B)	9000	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1091	
GRO+DRO (EPA SW-846 Method 8015M)	876	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.9	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	07/26/2024	
On what date will (or did) the final sampling or liner inspection occur	09/12/2024	
On what date will (or was) the remediation complete(d)	09/12/2024	
What is the estimated surface area (in square feet) that will be reclaimed	13200	
What is the estimated volume (in cubic yards) that will be reclaimed	4800	
What is the estimated surface area (in square feet) that will be remediated	d 13200	
What is the estimated volume (in cubic yards) that will be remediated	4800	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adj	justed in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

<u>District III</u> 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, Page 4

Action 392412

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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.)		
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)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Aimee Cole Email: acole@ensolum.com Date: 10/14/2024

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

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

QUESTIONS, Page 5

Action 392412

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 No submission

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<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 392412

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	372056
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/12/2024
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	10000

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	13200	
What was the total volume (cubic yards) remediated	4800	
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	13200	
What was the total volume (in cubic yards) reclaimed	4800	
Summarize any additional remediation activities not included by answers (above)	Excavation activities were completed in coordination with Incident ID nAPP2328619341. Sampling notifications submitted under Incident ID nAPP2328619341 also apply to this release.	

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: Aimee Cole
Email: acole@ensolum.com
Date: 10/14/2024

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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 7

Action 392412

QUESTIONS (continued)

QUESTIONS (continued)	
Operator: Mayerick Permian LLC	OGRID: 331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
Tiousion, TX 77002	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	•
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	13200
What was the total volume of replacement material (in cubic yards) for this site	4800
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/04/2024
Summarize any additional reclamation activities not included by answers (above)	Reclamation activities are summarized in the attached Closure Request.

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Aimee Cole
Email: acole@ensolum.com
Date: 10/14/2024

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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 8

Action 392412

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 392412

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	392412
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	10/16/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/16/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	10/16/2024