



July 24, 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
EVGSAU 3308-007 Flowline
Incident Number nAPP2317952227
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the EVGSAU 3308-007 Flowline (Site) to address impacts to soil resulting from a release of produced water and crude oil at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2317952227.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit I, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (32.7897428, -103.4751821) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On June 27, 2023, corrosion of a flowline resulted in the release of approximately 40 barrels (bbls) of produced water and 5 bbls of crude oil onto the surrounding pasture. A vacuum truck was used to recover approximately 31 bbls of produced water and 4 bbls of crude oil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 28, 2023. The release was assigned Incident Number nAPP2317952227.

The June 27, 2023, release overlapped a portion of the historical June 2, 2017, release (Incident Number NOY1715955207). A *Remediation Work Plan* and subsequent *Closure Request* were submitted to the NMOCD for historical Incident Number NOY1715955207. The NMOCD approved excavation of impacted soil to the maximum extent practicable above the dense/shallow caprock and installation of poly liners over the rock in accessible portions of the excavation. The June 27, 2023, release occurred in the unlined area of the historical excavation, directly beneath multiple active flowlines.

Since the release occurred in the pasture, compliance with the Cultural Properties Protection (CPP) Rule was required. Ensolum contracted Beaver Creek Archeology to conduct an Archaeological Records Management System (ARMS) review. Based on a review of prior cultural resource surveys that overlap the release extent, no cultural resources were identified within and/or around the release extent requiring

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oversight or modifications to remediation efforts. A copy of the NMSLO Cultural Resources Cover Sheet is included as Appendix A.

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). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential 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 groundwater well data. The groundwater wells used for depth to groundwater determination are presented on Figure 1 and the well records are provided in Appendix B. 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 1.5 feet of surface soil in the pasture area that was impacted by the release. Due to the dense/shallow caprock at approximately 1.5 feet bgs beneath the release, Maverick is requesting a variance to 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. Vegetation rooting depth in this area is limited to the top 1-foot to 1.5 feet of soil, due to the shallow rock restricting rooting depth. Excavation of the top four feet would require jackhammering of rock from 1.5 feet to 4 feet bgs. Excavation/jackhammering to this depth is not feasible and was not required by the NMOCD for closure approval of Incident Number NOY1715955207, located at the same Site.

Reclamation requirements of 600 mg/kg chloride and 100 mg/kg TPH were applied at the Site to the top 1.5 feet of the release extent where vegetation growth is affected. The Site Closure Criteria was applied at depths greater than 1.5 feet. Based on remediation of surface soil to the maximum rooting depth and depth to groundwater greater than 51 feet bgs, Maverick believes the variance request at this Site is equally protective of human health, vegetation health, the environment, and groundwater. NMOCD approved the variance request, correspondence regarding the variance request is provided in Appendix F. The NMSLO also granted verbal approval of the variance.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six assessment soil samples (SS01 through SS06) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. Four assessment soil samples (SS07 through SS10) were collected within the release extent at a depth of 0.5 feet bgs to assess the surface soil within the release. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

The assessment 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): 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 4500.

Laboratory analytical results for assessment soil samples SS01 through SS06, collected 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 release. Laboratory analytical results for assessment soil samples SS07 through SS10, collected within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria or reclamation requirements. Based on the laboratory analytical results and visible staining in the release area, excavation and delineation activities were warranted.

EXCAVATION AND DELINEATION ACTIVITIES

During May and June 2024, Ensolum personnel were at the Site to oversee excavation of impacted soil to the maximum extent practicable. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Excavation activities were performed using a hydro-vacuum, backhoe, jackhammer, hand shovels, and transport vehicles. The excavation was completed to depths ranging from 1.5 feet to 2.5 feet bgs to remove all of the soil above the caprock. As documented in the approved *Closure Request* for the historical release at the Site (Incident Number NOY1715955207), dense/shallow caprock was encountered at a depth of 1.5 feet bgs in the floor of the excavation. Areas of the excavation completed to depths greater than 1.5 feet were completed with a jackhammer. The historical liner associated with Incident Number NOY1715955207 was encountered in the floor of the excavation in an approximate 2,200 square foot area in the north side of the excavation extent. Excavation in this area was completed to the depth of the liner. No floor samples were collected from the 2,200 square foot area where the liner was exposed in the floor of the excavation.

Following removal of impacted soil to the maximum extent practicable, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation (except in the area where the liner was exposed in the floor of the northern excavation extent). All loose soil was removed from the excavation, the floor samples were collected from the caprock surface using a jackhammer. 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 FS50 were collected from the floor of the excavation at depths ranging from 1.5 feet to 2.5 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 1.5 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure

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3. Photographic documentation was completed during the excavation activities and a photographic log is included in Appendix C.

One pothole (PH01) was advanced within the open excavation to a depth of 9 feet bgs using a jackhammer. Soil from the pothole was field screened for VOCs and chloride. Final depth of the pothole was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Field screening results and observations for the pothole were logged on a lithologic soil sampling log, which is included in Appendix D. The pothole location is presented on Figure 2. The excavation and delineation soil samples were handled following the same procedures as described above and submitted to Cardinal Laboratories for analysis of BTEX, TPH, and chloride.

Laboratory analytical results for excavation sidewall samples SW01 through SW04, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results for excavation floor samples FS01 through FS50, collected from the exposed caprock, indicated all COC concentrations were compliant with the Site Closure Criteria.

Laboratory analytical results for the delineation samples collected from pothole PH01 indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the final depth delineation sample, collected at a depth of 9 feet bgs, was compliant with the most stringent Table I Closure Criteria and provided vertical delineation of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix E.

The excavation measured approximately 12,000 square feet in areal extent. A total of approximately 850 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 PLAN

Upon approval of this *Closure Request*, the excavation will be backfilled with locally procured topsoil. One representative 5-point composite sample (BF01) was collected from the sourced backfill topsoil 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 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 E.

Following backfill activities, the disturbed area will be contoured to match the surrounding topography and the surface will be prepared for seeding. The disturbed pasture area will be seeded with the NMSLO loamy sites seed mix at the rate specified in pounds of pure live seed (PLS) per acre. The seed mix will be distributed using a drill seeder.

Common Name (Variety)	PLS/Acre
Black Grama (VNS, Southern)	1.0
Blue Grama (Lovington)	1.0
Sideoats Grama (Vaughn, El Reno)	4.0
Sand Dropseed (VNS, Southern)	2.0
Alkali Sacaton (VNS, Southern)	1.0
Little Bluestem (Cimarron, Pastura)	1.5

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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 will include 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.
- If necessary, an additional application of the NMSLO seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Reclamation Report* will be submitted to the NMOCD upon completion of backfilling, contouring, and seeding activities. A *Revegetation Report* will be submitted 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 pre-disturbance 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).

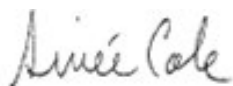
CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 27, 2023, 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. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater is estimated to be between 51 feet and 100 feet bgs 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 Number nAPP2317952227.

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, LLC
New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map
Figure 2 Assessment Soil Sample Locations

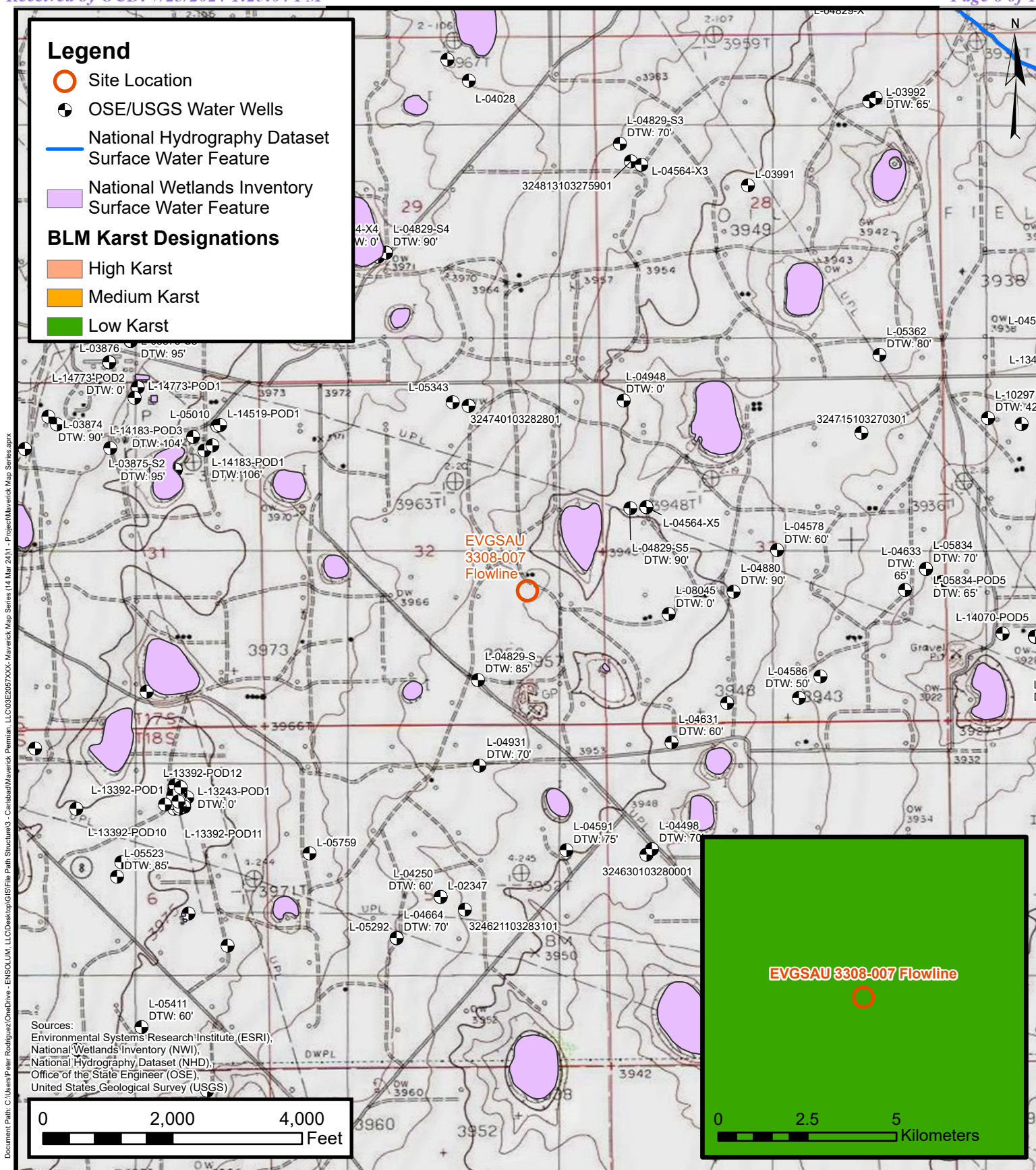
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Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	NMSLO Cultural Resources Cover Sheet
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Log
Appendix E	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix F	NMOCD Correspondence



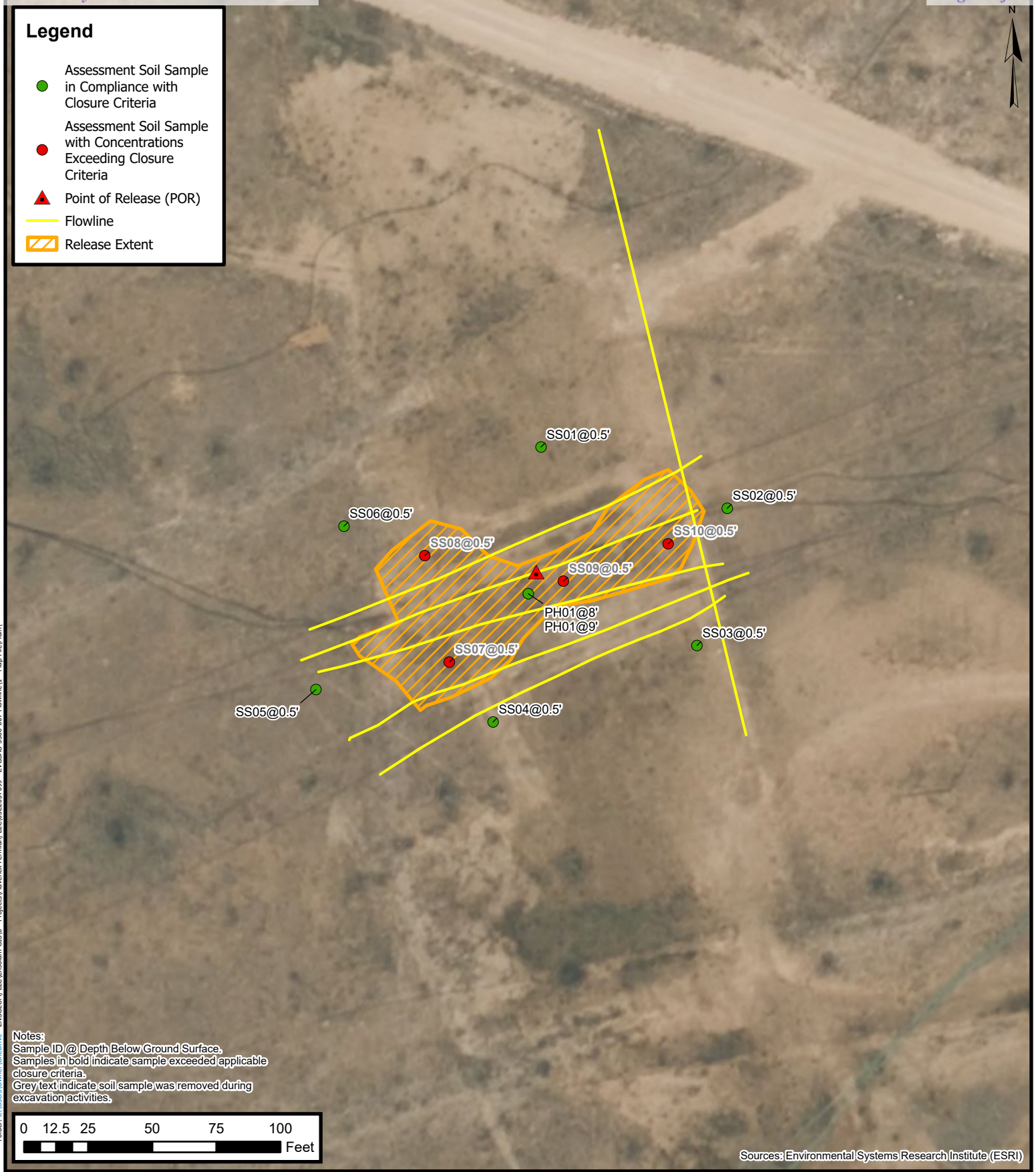
FIGURES



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Maverick Permian, LLC

I-32-17S-35E
Lea County, New Mexico

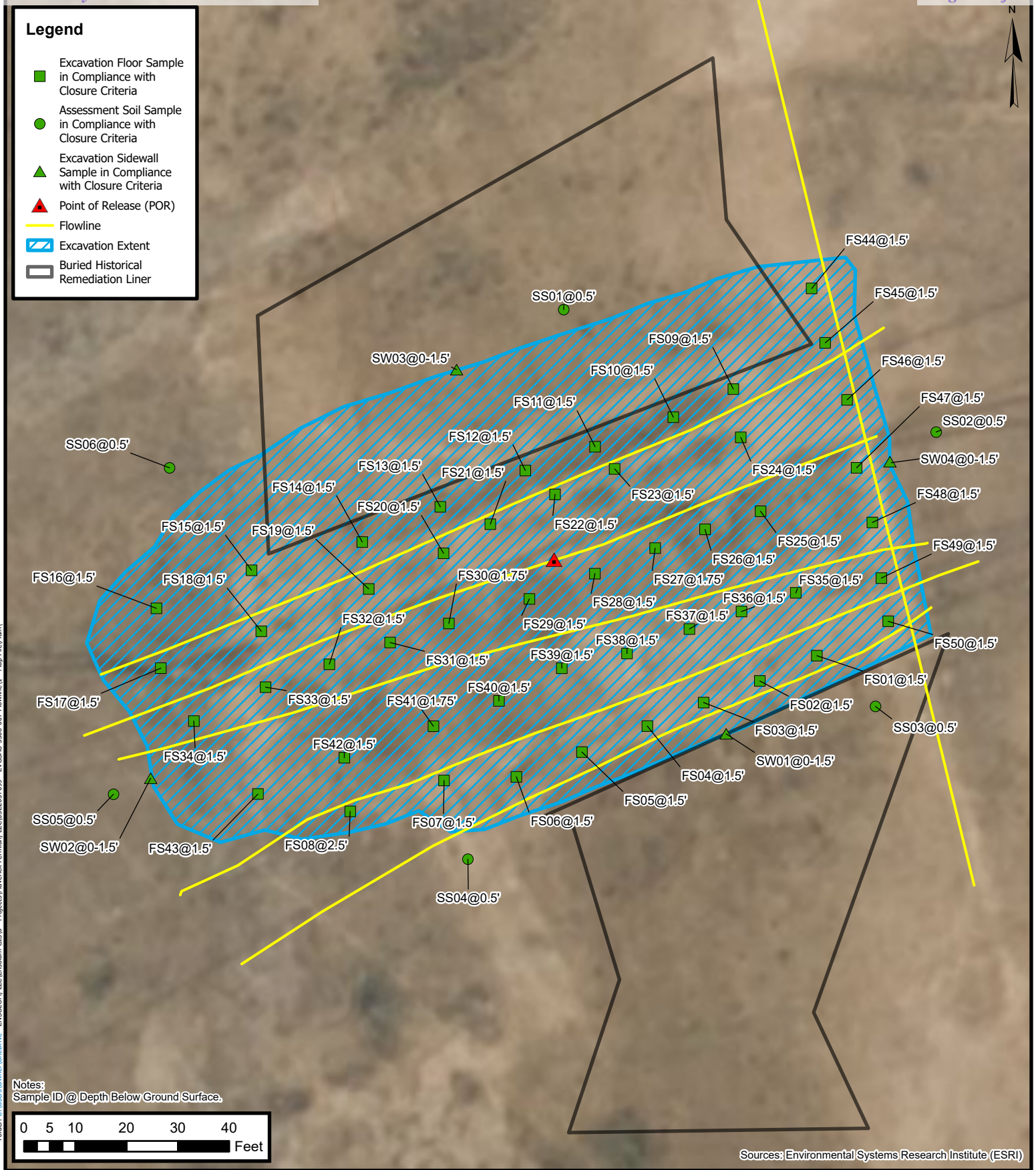
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Assessment Soil Sample Locations

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FIGURE
2



Excavation Soil Sample Locations

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FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirements			NE	NE	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	03/14/2024	0.5	<0.050	<0.300	<50.0	27,100	7,160	27,100	34,260	15,500
SS08	03/14/2024	0.5	<0.050	<0.300	<10.0	348	259	348	607	17,600
SS09	03/14/2024	0.5	<0.050	<0.300	<50.0	34,400	9,910	34,400	44,310	11,200
SS10	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	36,000
Delineation Soil Samples										
PH01	05/13/2024	1.5	Not Analyzed - Field Screening Results Only							2,564
PH01	05/13/2024	2.5								2,564
PH01	05/13/2024	4								1,825
PH01	05/13/2024	6								640
PH01	05/13/2024	8.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
PH01	05/24/2024	9.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Excavation Floor Soil Samples										
FS01	05/24/2024	1.5	<0.050	<0.300	<10.0	44.9	21.7	44.9	66.6	48.0
FS02	05/24/2024	1.5	<0.050	<0.300	<10.0	62.8	54.3	62.8	117	1,520
FS03	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,330
FS04	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS05	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS06	05/24/2024	1.5	<0.050	<0.300	<10.0	18.4	<10.0	<10.0	18.4	432
FS07	05/24/2024	1.5	<0.050	<0.300	<10.0	35.4	<10.0	<10.0	35.4	2,440



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirements			NE	NE	NE	NE	NE	NE	100	600
FS08	05/24/2024	1.5	<0.050	<0.300	<10.0	15.1	<10.0	<10.0	15.1	8,800
FS08	06/06/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,120
FS09	05/24/2024	1.5	<0.050	<0.300	<10.0	157	165	157	322	2,560
FS10	05/24/2024	1.5	<0.050	<0.300	<10.0	38.4	30.2	38.4	68.6	896
FS11	05/24/2024	1.5	<0.050	<0.300	<10.0	48.6	42.9	48.6	91.5	592
FS12	05/24/2024	1.5	<0.050	<0.300	<10.0	234	165	234	399	4,040
FS13	05/24/2024	1.5	<0.050	<0.300	<10.0	80.2	50.5	80.2	131	3,520
FS14	05/24/2024	1.5	<0.050	<0.300	<10.0	36.4	19.7	36.4	56.1	3,200
FS15	05/24/2024	1.5	<0.050	<0.300	<10.0	94.3	61.8	94.3	156	1,300
FS16	05/24/2024	1.5	<0.050	<0.300	<10.0	34.8	24.0	34.8	58.8	1,060
FS17	05/24/2024	1.5	<0.050	<0.300	<10.0	26.6	13.9	26.6	40.5	2,280
FS18	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,630
FS19	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,480
FS20	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
FS21	05/24/2024	1.5	<0.050	<0.300	<10.0	23.5	<10.0	23.5	23.5	2,200
FS22	05/24/2024	1.5	<0.050	<0.300	<10.0	25.8	10.7	25.8	36.5	2,080
FS23	05/24/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
FS24	05/24/2024	1.5	<0.050	<0.300	<10.0	22.4	<10.0	22	22.4	640
FS25	05/30/2024	1.5	<0.050	<0.300	<10.0	13.1	<10.0	13.1	13.1	3,680
FS26	05/29/2024	1.5	<0.050	<0.300	<10.0	37.4	21.0	37.4	58.4	2,320
FS27	05/29/2024	1.5	<0.050	<0.300	<10.0	16.7	<10.0	16.7	16.7	5,360
FS27	06/06/2024	1.75	<0.050	<0.300	<10.0	54.4	14.9	54.4	69.3	3,760
FS28	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150
FS29	05/29/2024	1.5	<0.050	<0.300	<10.0	342	94.7	342	437	2,200
FS30	05/29/2024	1.5	<0.050	<0.300	<10.0	112	33.2	112	145	5,200
FS30	06/06/2024	1.75	<0.050	<0.300	<10.0	70.1	22.2	70.1	92.3	2,320



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirements			NE	NE	NE	NE	NE	NE	100	600
FS31	05/29/2024	1.5	<0.050	<0.300	<10.0	54.3	33.4	54.3	87.7	3,840
FS32	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
FS33	05/29/2024	1.5	<0.050	<0.300	<10.0	70.1	25.9	70.1	96.0	1,410
FS34	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,800
FS35	05/29/2024	1.5	<0.050	<0.300	<10.0	68.1	60.2	68.1	128	1,600
FS36	05/29/2024	1.5	<0.050	<0.300	<10.0	35.0	30.9	35.0	65.9	2,920
FS37	05/29/2024	1.5	<0.050	<0.300	<10.0	199	119	199	318	1,540
FS38	05/29/2024	1.5	<0.050	<0.300	<10.0	27.6	<10.0	27.6	27.6	816
FS39	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
FS40	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
FS41	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
FS41	06/06/2024	1.75	<0.050	<0.300	<10.0	49.4	12.0	49.4	61.4	2,040
FS42	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,880
FS43	05/29/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,040
FS44	06/11/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS45	06/11/2024	1.5	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	144
FS46	06/11/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS47	06/11/2024	1.5	<0.050	<0.300	<10.0	43.4	<10.0	43.4	43.4	128
FS48	06/11/2024	1.5	<0.050	<0.300	<10.0	41.4	17.3	41.4	58.7	160
FS49	06/11/2024	1.5	<0.050	<0.300	<10.0	34.5	10.5	34.5	45.0	96.0
FS50	06/11/2024	1.5	<0.050	<0.300	<10.0	31.1	12.5	31.1	43.6	48.0



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirements			NE	NE	NE	NE	NE	NE	100	600
Excavation Sidewall Soil Samples										
SW01*	5/21/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW02*	5/16/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW03*	5/22/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW04*	5/30/2024	0 - 1.5	<0.050	<0.300	<10.0	213	74.4	213	287	432
SW04*	6/11/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
Backfill Soil Sample										
BF01	5/7/2024	-	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirements			NE	NE	NE	NE	NE	NE	100	600

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement is 600 mg/kg for chloride and 100 mg/kg for TPH.

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.



APPENDIX A

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

From: [Raina Hanley](#)
To: [Aimee Cole](#)
Subject: Fw: multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)
Date: Friday, April 5, 2024 12:23:57 PM
Attachments: [image002.jpg](#)
[image005.jpg](#)
[image007.jpg](#)
[image008.jpg](#)

[**EXTERNAL EMAIL**]

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Friday, April 5, 2024 9:46 AM
To: Raina Hanley <RHanley@bcarch.org>
Subject: RE: multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)

Good morning,

Thank you for the submission of the three attached Cover Sheets. Since the proposed remediation activities will take place in areas that have been covered by archaeological survey and/or have been previously disturbed, Ensolum/ Maverick Permian is free to move forward with remediation. Please reach out if you have additional questions-



Anne Curry


*Archaeologist
Cultural Resources Office*

Office: 505.827.1276
Cell: 505.469.5582
New Mexico State Land Office
310 Old Santa Fe Trail

Santa Fe, NM 87504-1148
acurry@slo.state.nm.us
nmstatelands.org

.....



 P.O. Box 1148

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From: Raina Hanley <RHanley@bcarch.org>

Sent: Thursday, March 14, 2024 10:39 AM

To: CRO Info <croinfo@slo.state.nm.us>

Subject: [EXTERNAL] multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)

Good Morning,

Attached please find the following cultural resource cover sheets for three ARMS reviews completed and submitted through the CPP for Ensolum on behalf of Maverick Permian:

- Maverick Permians's Leamex 018 (BCA24-1707)
- Maverick Permians's EVGSAU 3308-007 Flowline (#1) (BCA24-1708)
- Maverick Permians's EVGSAU 3308-007 Flowline (#2) (BCA24-1709)

Please let us know if you have any questions or need any additional information.

Thank you,
Raina

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental
712 West Quay Avenue
Artesia, NM 88210
Ph: (575) 746-6142 | Fx: (701) 663-5589



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Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

April 19, 2024

Maverick Permian, LLC
1410 NW County RD
Hobbs, NM 88240

Attn: Bryce Wagoner

Re: Right-of-Entry Permit No.: **RE-7005 EVGSAU 3308-007 Flowline**

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Samantha Martinez of my staff at (505) 827-4003.

Sincerely,


James S. Bordegaray
Director, Commercial Resources Division

JSB/sm



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

**RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 7005**

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

Maverick Permian, LLC
1410 NW County RD
Hobbs, NM 88240

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a crude oil and produced water release on or adjacent to the site of the **EVGSAU 3308-007 (Incident#nAPP2317952227)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Lea County**, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
32	17S	35E	NE4SE4	Lea	32.7897428/-103.4751821

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

\$ 50.00 Application Fee
\$ 500.00 Permit Fee
\$ 550.00 Total Fee

RE-6379

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **Environmental consultant, excavation crew and hydrovac crew**
- L. Equipment and materials present on Premises: **Backhoe, Trackhoe, Front loader and Hydrovac**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-6379

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.



PERMITTEE SIGNATURE


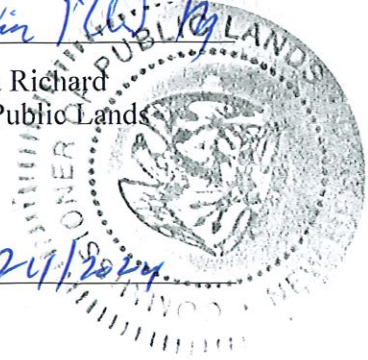
DATE: 4/24/24

Bryce Wagoner

ESG Specialist

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: 
Stephanie Garcia Richard
Commissioner of Public Lands


DATE: 04/24/2024




APPENDIX B

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 04578				33	17S	35E	643962	3629198* 
Driller License: 99		Driller Company:		O.R. MUSSELWHITE WATER WELL SE					
Driller Name:									
Drill Start Date: 01/12/1961		Drill Finish Date:		01/14/1961		Plug Date:		01/14/1961	
Log File Date: 01/17/1961		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 6.63		Depth Well:		126 feet		Depth Water:		60 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				90	126	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				66	126				

*UTM location was derived from PLSS - see Help

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

5/29/24 11:21 AM

POINT OF DIVERSION SUMMARY



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
L 04880		2	3	33	17S	35E	643757	3629002*	

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 04/18/1962 **Drill Finish Date:** 04/18/1962 **Plug Date:** 06/14/1962

Log File Date: 05/28/1962 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 145 feet **Depth Water:** 90 feet

Water Bearing Stratifications:	Top	Bottom	Description
	90	145	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	145

*UTM location was derived from PLSS - see Help

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

4/3/24 1:24 PM

POINT OF DIVERSION SUMMARY



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USGS Water Resources

Data Category:

Groundwater

▼


Geographic Area:

United States

▼

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324740103282801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324740103282801 17S.35E.32.21142

Lea County, New Mexico
Latitude 32°47'51", Longitude 103°28'39" NAD27
Land-surface elevation 3,965.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-03-04			D62610		3895.44	NGVD29	1	Z			A
1976-03-04			D62611		3896.93	NAVD88	1	Z			A
1976-03-04			D72019	69.56			1	Z			A
1981-01-20			D62610		3892.69	NGVD29	1	Z			A
1981-01-20			D62611		3894.18	NAVD88	1	Z			A
1981-01-20			D72019	72.31			1	Z			A
1986-04-04			D62610		3881.25	NGVD29	1	Z			A
1986-04-04			D62611		3882.74	NAVD88	1	Z			A
1986-04-04			D72019	83.75			1	Z			A
1990-12-20			D62610		3878.92	NGVD29	1	Z			A
1990-12-20			D62611		3880.41	NAVD88	1	Z			A
1990-12-20			D72019	86.08			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

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Page Last Modified: 2024-05-29 13:30:15 EDT

0.29 0.22 nadww01





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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324720103280101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324720103280101 17S.35E.33.13321

Lea County, New Mexico
Latitude 32°47'35", Longitude 103°28'10" NAD27
Land-surface elevation 3,952.00 feet above NGVD29
The depth of the well is 220 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1981-01-21			D	62610	3890.82	NGVD29	1	Z			A
1981-01-21			D	62611	3892.31	NAVD88	1	Z			A
1981-01-21			D	72019	61.18		1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)





APPENDIX C

Photographic Log



Photographic Log

Maverick Permian, LLC

EVGSAU 3308-007 Flowline

Incident Number nAPP2317952227



Photograph 1 Date: 6/27/2024
Description: Initial release and fluid recovery
View: Southeast



Photograph 2 Date: 3/14/2024
Description: Initial assessment site visit
View: West



Photograph 3 Date: 5/13/2024
Description: Excavation activities
View: Northeast



Photograph 4 Date: 5/14/2024
Description: Excavation activities
View: West

**Photographic Log**

Maverick Permian, LLC

EVGSAU 3308-007 Flowline

Incident Number nAPP2317952227

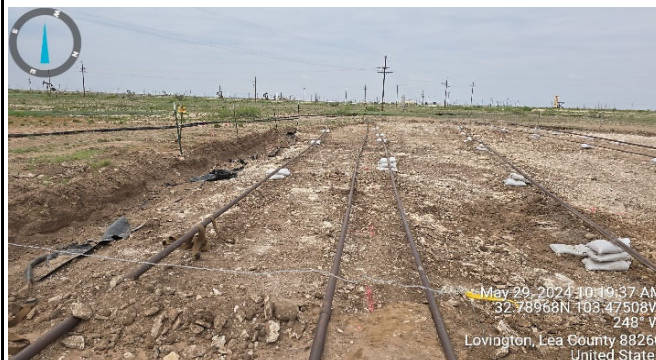


Photograph 5

Date: 5/29/2024

Description: Excavation activities

View: Northwest



Photograph 6

Date: 5/29/2024

Description: Excavation and historical liner

View: West



Photograph 7

Date: 6/10/2024

Description: Excavation activities

View: Northeast



Photograph 8

Date: 6/11/2024


Description: Excavation activities

View: South



APPENDIX D

Lithologic Soil Sampling Logs

						Sample Name: PH01		Date: 5/13/2024	
						Site Name: EVGSAU 3308-007 Flowline Release			
						Incident Number: nAP2317952227			
						Job Number: 03E2057099			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Mario Sarkis		Method: Hand Auger	
Coordinates: 32.789655°N, -103.475293°W						Hole Diameter: 3 in		Total Depth: 9	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	2,564	5.8	N	PH01		0		Open Excavation 0 to 1.5 feet bgs	
						1			
D	2,564	12.1	N	PH01		2	MLST	Interbedded Siltstone: fine grain size, gray to light brown to tan, high consolidation, bedding thickness of 1-2 mm, no hydrocarbon odor.	
						3			
D	1,825	1.7	N	PH01		4	SP-SM	Poorly Graded Silty Sands: Light tan, poorly graded, silty sand, low plasticity, no hydrocarbon odor	
						5			
D	640	3.7	N	PH01		6			
						7			
D	403		N	PH01	8.0	8			
D	<173	0.8	N	PH01	9.0	9			
Total depth at 9 ft bgs / MLST: Siltstone									



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 19, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (06-2023)

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 01 0.5' (H241332-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 02 0.5' (H241332-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 03 0.5' (H241332-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 04 0.5' (H241332-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 05 0.5' (H241332-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 06 0.5' (H241332-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 07 0.5' (H241332-07)

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	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	0.140	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38	GC-NC	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15500	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	27100	50.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	7160	50.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 812 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 08 0.5' (H241332-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17600	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	348	10.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	259	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 163 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 09 0.5' (H241332-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11200	16.0	03/15/2024	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	03/15/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	34400	50.0	03/15/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	9910	50.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 1110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 10 0.5' (H241332-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	03/15/2024	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	03/19/2024	ND	195	97.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 09, 2024

AIMEE COLE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: BF 01 (H242459-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2024	ND	2.17	109	2.00	0.854		
Toluene*	<0.050	0.050	05/07/2024	ND	2.24	112	2.00	0.726		
Ethylbenzene*	<0.050	0.050	05/07/2024	ND	2.23	111	2.00	0.529		
Total Xylenes*	<0.150	0.150	05/07/2024	ND	6.81	114	6.00	0.740		
Total BTEX	<0.300	0.300	05/07/2024	ND						

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

Chloride, SM4500Cl-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	05/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2024	ND	200	99.9	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/08/2024	ND	205	102	200	0.402	
EXT DRO >C28-C36	<10.0	10.0	05/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

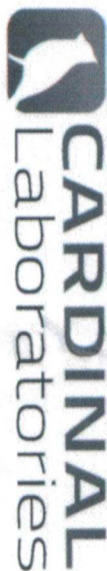
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 16, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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:	05/13/2024	Sampling Date:	05/13/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: PH 01 8 (H242607-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.04	102	2.00	4.25	
Toluene*	<0.050	0.050	05/15/2024	ND	2.11	105	2.00	4.02	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.47	108	6.00	3.92	
Total BTX	<0.300	0.300	05/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	05/15/2024	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	05/14/2024	ND	174	87.1	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	176	87.8	200	9.04	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 22, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: SW02 0 - 1.5 (H242715-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (720) 384-7365

Project #: 03E2057099

Project Name: FIVE STAR 3308-007 Famine Release Pits

Project Location: 32.7847, -103.4751

Sampler Name: Mario Sa (his)

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

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 :

MATRIX

PRESERV.

SAMPLING

DATE TIME

124215 SW02 0-1.5 C 1 5/16/24 0955

BTEX
TPH
CI-

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Relinquished By:

Date: 5/16/24 Received By:

Relinquished By:

Date: 5/16/24 Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID:

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

FORM-000 R-3.2 10/07/21

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



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

May 28, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/22/24 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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:	05/22/2024	Sampling Date:	05/21/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: SW 01 0 - 1.5 (H242831-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	2.03	102	2.00	3.71	
Toluene*	<0.050	0.050	05/23/2024	ND	2.12	106	2.00	4.06	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	2.07	103	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	6.44	107	6.00	3.77	
Total BTEX	<0.300	0.300	05/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/23/2024	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	05/22/2024	ND	187	93.5	200	0.0492	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	203	101	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/22/2024	Sampling Date:	05/22/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: SW 03 0 - 1.5 (H242831-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/23/2024	ND	2.03	102	2.00	3.71		
Toluene*	<0.050	0.050	05/23/2024	ND	2.12	106	2.00	4.06		
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	2.07	103	2.00	4.49		
Total Xylenes*	<0.150	0.150	05/23/2024	ND	6.44	107	6.00	3.77		
Total BTEX	<0.300	0.300	05/23/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/23/2024	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	05/22/2024	ND	187	93.5	200	0.0492	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	203	101	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 31, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/24/24 15:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 01 1.5 (H242935-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	179	89.6	200	3.26	
DRO >C10-C28*	44.9	10.0	05/29/2024	ND	187	93.6	200	9.21	
EXT DRO >C28-C36	21.7	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 02 1.5 (H242935-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22	
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	05/29/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	179	89.6	200	3.26	
DRO >C10-C28*	62.8	10.0	05/29/2024	ND	187	93.6	200	9.21	
EXT DRO >C28-C36	54.3	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 03 1.5 (H242935-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	179	89.6	200	3.26	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	187	93.6	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 04 1.5 (H242935-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	179	89.6	200	3.26	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	187	93.6	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 46.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 05 1.5 (H242935-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 51.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.2 % 49.1-148

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 06 1.5 (H242935-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	18.4	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 50.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.4 % 49.1-148

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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 07 1.5 (H242935-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	35.4	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 08 1.5 (H242935-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	15.1	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 58.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 09 1.5 (H242935-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	157	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	165	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 10 1.5 (H242935-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	38.4	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	30.2	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 11 1.5 (H242935-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	48.6	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	42.9	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 12 1.5 (H242935-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	05/30/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	234	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	165	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 13 1.5 (H242935-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	80.2	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	50.5	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 14 1.5 (H242935-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	05/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	36.4	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	19.7	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 15 1.5 (H242935-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.89	94.5	2.00	5.22		
Toluene*	<0.050	0.050	05/29/2024	ND	1.92	96.1	2.00	3.80		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.89	94.4	2.00	2.74		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	05/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	94.3	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	61.8	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 16 1.5 (H242935-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/29/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.49	91.6	6.00	2.92		
Total BTEx	<0.300	0.300	05/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	34.8	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	24.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 17 1.5 (H242935-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/29/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	26.6	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	13.9	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 18 1.5 (H242935-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44	
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92	
Total BTEx	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 19 1.5 (H242935-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 20 1.5 (H242935-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44	
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92	
Total BTEx	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	05/31/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 21 1.5 (H242935-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	23.5	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 22 1.5 (H242935-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	25.8	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	10.7	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 23 1.5 (H242935-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: FS 24 1.5 (H242935-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	203	102	200	0.682	
DRO >C10-C28*	22.4	10.0	05/29/2024	ND	211	106	200	0.281	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/24/2024	Sampling Date:	05/24/2024
Reported:	05/31/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Tamara Oldaker
Project Location:	32.7897, -103.4751		

Sample ID: PH 01 9 (H242935-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.94	96.8	2.00	2.44		
Toluene*	<0.050	0.050	05/30/2024	ND	1.88	94.2	2.00	2.47		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.90	95.0	2.00	2.98		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.49	91.6	6.00	2.92		
Total BTEX	<0.300	0.300	05/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/31/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	213	106	200	0.477	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	194	97.2	200	0.910	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2023

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST															
Project Manager: Aimee Cole		Company: Ensolum LLC																	
Address: 3122 National Parks Hwy		Attn: Aimee Cole																	
City: Carlsbad		Address:																	
Phone #: (720) 384-7365		Fax #:																	
Project #: 03E2057099		City:																	
Project Name: ENGSAN 3305-007 Flowline Release FL#2		State:																	
Project Location: 32,7679, -103,4751		Zip:																	
Sampler Name: Mario Sarkis		Phone #: 720 384 7365																	
FOR LAB USE ONLY		Fax #:																	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING											
					GROUNDWATER														
					WASTEWATER														
					SOIL														
					OIL														
					SLUDGE														
					OTHER :														
					ACID/BASE:														
					ICE / COOL														
					OTHER :														
						DATE	TIME												
#24	FS 11	1.5	C 1	X		5/24/24	1210	X	BTEX	X	X	X							
	FS 12		C 1	X			1213	X	TPH	X	X	X							
	FS 13		C 1	X			1216	X	Chlorides	X	X	X							
	FS 14		C 1	X			1219	X		X	X	X							
	FS 15		C 1	X			1220	X		X	X	X							
	FS 16		C 1	X			1223	X		X	X	X							
	FS 17		C 1	X			1238	X		X	X	X							
	FS 18		C 1	X			1245	X		X	X	X							
	FS 19		C 1	X			1253	X		X	X	X							
	FS 20		C 1	X			1307	X		X	X	X							

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Relinquished By:	Date: 5/24/24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1533		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS: acole@ensolum.com / m.sarkis@ensolum.com	
	Time:			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	Y.S.	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
				Thermometer ID #49 #140
				Correction Factor 0.56
				5/24/24
				Bacteria (only) Sample Condition
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC						P.O. #:																					
Project Manager: Aimee Cole						Company: ENSOLUM, LLC																					
Address: 3122 National Parks Hwy						Attn: Aimee Cole																					
City: Carlsbad						State: NM Zip: 88220																					
Phone #: (720) 384-7365						Fax #:																					
Project #: 03E2A057094						Project Owner:																					
Project Name: EUGENIA V 3308-007 Flowline Release FL#						City:																					
Project Location: 32,7897,-103.4751						State: Zip:																					
Sample Name: Marcio Sacramento						Phone #: 720-384-7365																					
FOR LAB USE ONLY						Fax #:																					
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 :		DATE TIME		BTEX	TPH	Chlorides					
H24	21	F521	1.5	C 1	V	✓	S/P	13/5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	22	F522	1.5	C 1	V	✓	S/P	13/5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	23	F523	1.5	C 1	V	✓	S/P	13/5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	24	F524	1.5	C 1	V	✓	S/P	13/5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	25	F401	9	G 1	V	✓	S/P	09/15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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Relinquished By:		Date: 5/24/24	Received By:		Marcio Sacramento	Verbal Result:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:																		
All Results are emailed. Please provide Email address:		oale@ensolum.com / msaish,3c@ensolum.com																									
REMARKS:																											
Turnaround Time:		Standard Rush	<input checked="" type="checkbox"/>	Bacteria (only)	Sample Condition	Cool Intact	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temp. °C																			
Thermometer ID #413 - #140		Correction Factor -0.5°C	#140	6/24/24	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	Corrected Temp. °C																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp.: °C Corrected Temp.: °C	1.8	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	<input checked="" type="checkbox"/>	Bacteria (only)	Sample Condition	Cool Intact	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temp. °C														
Reinquinshed By:		Date:	Time:	Received By:	Marcio Sacramento	Verbal Result:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:																		
All Results are emailed. Please provide Email address:		oale@ensolum.com / msaish,3c@ensolum.com																									
REMARKS:																											



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

June 03, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 12:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 26 1.5' (H242985-02)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.62	81.2	2.00	4.81	
Toluene*	<0.050	0.050	05/31/2024	ND	1.63	81.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.70	84.8	2.00	6.19	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.14	85.7	6.00	7.12	
Total BTX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	37.4	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	21.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 27 1.5' (H242985-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.62	81.2	2.00	4.81	
Toluene*	<0.050	0.050	05/31/2024	ND	1.63	81.5	2.00	5.52	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.70	84.8	2.00	6.19	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.14	85.7	6.00	7.12	
Total BTEX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/31/2024	ND	432	108	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	16.7	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 28 1.5' (H242985-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 29 1.5' (H242985-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	342	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	94.7	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 30 1.5' (H242985-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	112	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	33.2	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 31 1.5' (H242985-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	54.3	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	33.4	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 32 1.5' (H242985-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 33 1.5' (H242985-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	70.1	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	25.9	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 34 1.5' (H242985-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39		
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67		
Total BTEX	<0.300	0.300	05/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 35 1.5' (H242985-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	68.1	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	60.2	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 36 1.5' (H242985-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39		
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76		
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55		
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67		
Total BTEX	<0.300	0.300	05/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	35.0	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	30.9	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 37 1.5' (H242985-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	05/31/2024	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	05/30/2024	ND	202	101	200	0.469	
DRO >C10-C28*	199	10.0	05/30/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	119	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 38 1.5' (H242985-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/31/2024	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	05/31/2024	ND	202	101	200	0.469	
DRO >C10-C28*	27.6	10.0	05/31/2024	ND	217	108	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 39 1.5' (H242985-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/30/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/30/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/31/2024	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	05/31/2024	ND	202	101	200	0.469		
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	217	108	200	0.302		
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND						

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 40 1.5' (H242985-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2024	ND	1.79	89.7	2.00	8.39		
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.76		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.55		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.15	85.9	6.00	9.67		
Total BTEX	<0.300	0.300	05/31/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	05/31/2024	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	05/30/2024	ND	207	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	189	94.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 41 1.5' (H242985-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	05/31/2024	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	05/30/2024	ND	207	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	189	94.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 42 1.5' (H242985-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	05/31/2024	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	05/30/2024	ND	207	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	189	94.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2024	Sampling Date:	05/29/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 43 1.5' (H242985-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2024	ND	1.79	89.7	2.00	8.39	
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.76	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.76	87.9	2.00	9.55	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.15	85.9	6.00	9.67	
Total BTEX	<0.300	0.300	05/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/31/2024	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	05/30/2024	ND	207	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	189	94.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					

Surrogate: 1-Chlorooctane 57.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 49.1-148

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST							
Project Manager: Aimee Cole				P.O. #:											
Address: 3122 National Parks Hwy				Company: Ensolum, LLC											
City: Carlsbad				Attn: Aimee Cole											
State: NM Zip: 88220				Address:											
Phone #: (720) 384-7365				City:											
Fax #:				State:											
Project #: 03E2057099				Project Owner:											
Project Name: EVGSAU 3308-007 Pipeline Release #2				City:											
Project Location: 32.7847, -103.4751				State:											
Sample Name: MACO Sarcosis				Phone #: 720-384-7365											
FOR LAB USE ONLY				Fax #:											
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
H242985		FS35		1.5		C 1		1		SOIL		✓		DATE	
11		FS36		C 1		✓		1027		✓		✓		TIME	
12		FS37		C 1		✓		1029		✓		✓		1025	
13		FS38		C 1		✓		1031		✓		✓		1027	
14		FS39		C 1		✓		1033		✓		✓		1029	
15		FS40		C 1		✓		1036		✓		✓		1031	
16		FS41		C 1		✓		1038		✓		✓		1033	
17		FS42		C 1		✓		1041		✓		✓		1036	
18		FS43		C 1		✓		1043		✓		✓		1038	
19														1041	
20														1043	
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Relinquished By:				Date: 5/29/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
Time: 12:00				Time: 12:00		Time: 12:00		All Results are emailed. Please provide Email address:							
Relinquished By:				Date: 5/29/24		Received By:		REMARKS:							
Time: 12:00				Time: 12:00		Time: 12:00									
Delivered By: (Circle One)				Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:					
Sampler - UPS - Bus - Other:				Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition		Standard Rush <input type="checkbox"/> Yes <input type="checkbox"/> No					
FORM-000-R-3.2 10/07/21				2.8°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		AD		Thermometer ID: #115					
				2.8°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Correction Factor: 0.5°C					

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



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

June 05, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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:	05/31/2024	Sampling Date:	05/30/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 25 1.5 (H243056-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51		
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401		
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103		
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261		
Total BTEX	<0.300	0.300	06/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	13.1	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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:	05/31/2024	Sampling Date:	05/30/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: SW 04 0-1.5' (H243056-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/04/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	213	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	74.4	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

June 11, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 06/06/24 16:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 08 2.5 (H243252-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.86	93.1	2.00	5.25	
Toluene*	<0.050	0.050	06/07/2024	ND	1.86	92.9	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.92	96.1	2.00	1.50	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.59	93.1	6.00	1.49	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/07/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	199	99.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	192	95.8	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 41 1.75 (H243252-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.86	93.1	2.00	5.25	
Toluene*	<0.050	0.050	06/07/2024	ND	1.86	92.9	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.92	96.1	2.00	1.50	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.59	93.1	6.00	1.49	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/07/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	199	99.7	200	1.14	
DRO >C10-C28*	49.4	10.0	06/08/2024	ND	192	95.8	200	2.81	
EXT DRO >C28-C36	12.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 27 1.75 (H243252-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.86	93.1	2.00	5.25	
Toluene*	<0.050	0.050	06/07/2024	ND	1.86	92.9	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.92	96.1	2.00	1.50	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.59	93.1	6.00	1.49	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/07/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	199	99.7	200	1.14	
DRO >C10-C28*	56.4	10.0	06/08/2024	ND	192	95.8	200	2.81	
EXT DRO >C28-C36	14.9	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Alyssa Parras
Project Location:	32.7897, -103.4751		

Sample ID: FS 30 1.75 (H243252-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.86	93.1	2.00	5.25	
Toluene*	<0.050	0.050	06/07/2024	ND	1.86	92.9	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.92	96.1	2.00	1.50	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.59	93.1	6.00	1.49	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	06/07/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	199	99.7	200	1.14	
DRO >C10-C28*	70.1	10.0	06/08/2024	ND	192	95.8	200	2.81	
EXT DRO >C28-C36	22.2	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Ensolium, LLC

Bill To

[illegible]



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

June 13, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE #2

Enclosed are the results of analyses for samples received by the laboratory on 06/11/24 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 44 1.5' (H243348-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	203	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	204	102	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 45 1.5' (H243348-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	203	102	200	3.03	
DRO >C10-C28*	42.8	10.0	06/11/2024	ND	204	102	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 46 1.5' (H243348-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	203	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	204	102	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 47 1.5' (H243348-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43		
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	203	102	200	3.03		
DRO >C10-C28*	43.4	10.0	06/12/2024	ND	204	102	200	5.71		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 48 1.5' (H243348-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43		
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	41.4	10.0	06/11/2024	ND	189	94.4	200	1.66	
EXT DRO >C28-C36	17.3	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 49 1.5' (H243348-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	34.5	10.0	06/11/2024	ND	189	94.4	200	1.66	
EXT DRO >C28-C36	10.5	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: FS 50 1.5' (H243348-07)

BTX 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	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	194	97.0	200	1.39		
DRO >C10-C28*	31.1	10.0	06/11/2024	ND	189	94.4	200	1.66		
EXT DRO >C28-C36	12.5	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 61.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2024	Sampling Date:	06/11/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057099	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7897, -103.4751		

Sample ID: SW 04 0-1.5' (H243348-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.03	102	2.00	2.43	
Toluene*	<0.050	0.050	06/12/2024	ND	2.03	101	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	5.99	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.08	101	6.00	6.26	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	189	94.4	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST																						
Project Manager: Aimee Cole		Address: 3122 National Parks Hwy		Company: Ensolum, LLC																						
City: Carlsbad		State: NM Zip: 88220		Attn: Aimee Cole																						
Phone #: (720) 384-7365		Fax #:		Address:																						
Project #: 0362057099		Project Owner:		City:																						
Project Name: ENSA 3308-007 Flowline Release #1A2		State:		Zip:																						
Project Location: 38.7897, -103.4751		Phone #: 720-384-7365		Fax #:																						
Sampler Name: Mario Sack's		FOR LAB USE ONLY		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		DATE		TIME																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													
1443348	FS44	1.5	C	1										6/11/24	0946	BTEX	TPH	Chlorides								
2	FS45	1.5	C	1											0948											
3	FS46	1.5	C	1											1023											
4	FS47	1.5	C	1											1032											
5	FS48	1.5	C	1											1035											
6	FS49	1.5	C	1											1041											
7	FS50	1.5	C	1											1043											
8	SW04	0-1.5	C	1											1039											
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Relinquished By:		Date: 6/11/24	Received By:																							
Relinquished By:		Date: 6/11/24	Received By:																							
Time: 1335																										
Date: 6/11/24																										
Time:																										
Delivered By: (Circle One)		Observed Temp. °C: 5.4	Sample Condition: Cool Intact	Checked By: (Signature)																						
Sampler - UPS - Bus - Other:		Corrected Temp. °C:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																						
FORM-006-R-3-2 10/07/21																										
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																										
Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition																							
Thermometer ID: #113		4.8-7.1	Cool Intact																							
Correction Factor: -0.5°C		Yes <input type="checkbox"/> No <input type="checkbox"/>	Observed Temp. °C																							
		Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C																							
All Results are emailed. Please provide Email address:																										
REMARKS:		a101@ensolum.com / msack@ensolum.com																								



APPENDIX F

NMOCD Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Aimee Cole](#)
Subject: Re: [EXTERNAL] Variance Request - EVGSAU 3308-007 Flowline (Incident Number nAPP2317952227)
Date: Tuesday, July 23, 2024 10:53:20 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-dv3c113a.png](#)

[**EXTERNAL EMAIL**]

Hi Aimee,

Your variance request is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Aimee Cole <acole@ensolum.com>
Sent: Tuesday, July 23, 2024 11:37 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Variance Request - EVGSAU 3308-007 Flowline (Incident Number nAPP2317952227)

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

Hi Nelson,

Please see the below variance request for the EVGSAU 3308-007 Flowline Release (Incident Number nAPP2317952227).

Maverick is requesting a variance to 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation due to dense/shallow caprock at approximately 1.5 feet

bgs beneath the release extent. Excavation of the top four feet would require jackhammering of rock from 1.5 feet to 4 feet bgs.

Reclamation requirements of 600 mg/kg chloride and 100 mg/kg TPH were applied at the Site to the top 1.5 feet of the release extent where vegetation growth is affected. The Site Closure Criteria was applied at depths greater than 1.5 feet. Based on remediation of surface soil to the maximum vegetation rooting depth and depth to groundwater greater than 51 feet bgs, Maverick believes the variance request at this Site is equally protective of public health, vegetation health, the environment, and groundwater.

Please let me know if you approve of the variance request or if you require any additional information.

Thank you,



Aimee Cole
Associate Principal
720-384-7365
Ensolum, LLC
in f X

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

QUESTIONS

Action 366509

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	366509
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317952227
Incident Name	NAPP2317952227 3308-007 FLOWLINE RELEASE @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	3308-007 FLOWLINE RELEASE
Date Release Discovered	06/27/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 5 BBL | Recovered: 4 BBL | Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 40 BBL | Recovered: 31 BBL | Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	366509
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 07/23/2024
--	---

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QUESTIONS, Page 3

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	366509
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	4040
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	399
GRO+DRO	(EPA SW-846 Method 8015M)	234
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	05/07/2024
On what date will (or did) the final sampling or liner inspection occur	06/11/2024
On what date will (or was) the remediation complete(d)	06/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	12000
What is the estimated volume (in cubic yards) that will be reclaimed	850
What is the estimated surface area (in square feet) that will be remediated	12000
What is the estimated volume (in cubic yards) that will be remediated	850

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	366509
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 07/23/2024
--	---

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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QUESTIONS, Page 5

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 366509
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	366509
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352449
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

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	12000
What was the total volume (cubic yards) remediated	850
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	12000
What was the total volume (in cubic yards) reclaimed	850
Summarize any additional remediation activities not included by answers (above)	See closure request for remediation details.

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.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 07/23/2024
--	--

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

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 7

Action 366509

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	366509
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 366509

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	366509
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/29/2024
amaxwell	A reclamation report will not be accepted until reclamation 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.	7/29/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/29/2024