

March 21, 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: Remediation Work Plan East Loving SWD #001 Incident Number nAPP2118277509 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Remediation Work Plan* (*Work Plan*) to document site assessment and delineation activities completed to date and propose a work plan to address the impacted soil identified at the East Loving SWD #001 (Site). The following Work Plan proposes additional lateral and vertical delineation of the impacted soil and collection of background soil samples to evaluate naturally occurring chloride concentrations at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 15, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.309559, -104.068115) and is associated with oil and gas exploration and production operations on private land.

On July 1, 2021, a leak in the injection line between the pump and wellhead resulted in the release approximately 30 barrels (bbls) of produced water onto the surface of the well pad. No released fluids were recovered; however, an initial scrape of the saturated soil was completed on July 2, 2021. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 (Form C-141) on July 14, 2021. The release was assigned Incident Number nAPP2118277509.

SITE CHARATERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-00616, located approximately 0.19 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 30 feet bgs. All wells used for

BTA Oil Producers, LLC Remediation Work Plan East Loving SWD #001

depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 0.5 miles northeast of 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 not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). The Site is less than 1,000 feet to a freshwater well. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

Between May 2023 and December 2023, Ensolum personnel were at the Site to evaluate the historical release extent based on information provided on the Form C-141, visual observations, and the documented release extent. Assessment soil samples SS01 through SS11 were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the extent of the surface release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The release extent and assessment 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 visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM 4500.

Laboratory analytical results for soil samples SS01 through SS05, collected within the release extent, indicated chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for soil samples SS06 through SS11, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the surface release. Laboratory analytical results are summarized in Table 1.

Based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01 through SS05, additional delineation activities were warranted.

DELINEATION ACTIVITIES

During September 2023 and December 2023, Ensolum personnel were at the Site to complete Site assessment activities to delineate the lateral and vertical extent of the historical release. Potholes PH01



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through PH06 and boreholes BH01 through BH08 were advanced via trackhoe and/or drilling rig within and around the documented release area to depths ranging from 3 feet to 20 feet bgs. Refusal with the trackhoe was encountered in potholes PH01 through PH06 at depths of 3 feet to 4 feet bgs. During December 2023, a drilling rig was used to deepen potholes PH03 and PH05 and advance boreholes BH02 and BH06 within the release extent, and advance boreholes BH01, BH03 through BH05, and BH07 through BH09 around the release extent. Soil from the potholes and boreholes was field screened for VOCs and chloride. Field screening results and observations for the potholes and boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. Based on field screening results, discrete delineation samples were collected from the potholes and boreholes at depths ranging from 1-foot to 20 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

Laboratory analytical results for the delineation soil samples collected from pothole PH06, advanced in the eastern portion of the release extent, and borehole BH07, advanced southwest of the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria at depths ranging from 1-foot to 3 feet bgs in PH06 and from 1-foot to 6 feet bgs in BH07. Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 and boreholes BH01 through BH06, BH08, and BH09, advanced within and around the documented release extent, indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 20 feet bgs. The samples collecte from the terminal depths in pothole PH05 and boreholes BH03, BH04, BH06 through BH09 provided vertical delineation of the chloride impacted soil. In these locations, soil containing chloride less than 600 mg/kg was identified at depths ranging from 6 feet to 14 feet bgs. Chloride concentrations in pothole PH03 and boreholes BH01 and BH05, advanced within and around the release extent, continued to exceed the Site Closure Criteria at depths ranging from 16 feet to 20 feet bgs. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

Based on the laboratory analytical results, the lateral and vertical extent of impacted soil was not fully delineated. The deeper impacted soil identified outside of the release extent may be attributed to additional historical releases or naturally occurring chloride. Further Site assessment activities are warranted and are proposed below.

PROPOSED REMEDIATION WORK PLAN

BTA proposes to complete the following investigation activities:

- Vertical delineation of impacted soil to below the Site Closure Criteria will be completed via drilling rig at the location of potholes PH01 through PH04 and BH02, located within the documented release extent and boreholes BH05 and BH01, located to the north and south of the release extent.
- A background soil boring will be advanced at an upgradient location, approximately 50 feet to 100 feet from the Site, to evaluate naturally occurring chloride concentrations. A proposed background soil boring location is shown on Figure 4.
- Lateral delineation of chloride concentrations to below the Site Closure Criteria will be completed via drilling rig to define the lateral extent of impacted soil at the Site. BTA will work with the adjacent landowners for approval to advance delineation soil borings around the perimeter of the well pad. Proposed soil boring locations are shown on Figure 4. The borings advanced off pad in undeveloped areas may be used as additional background data.



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- Soil from all boreholes will be field screened at 1-foot intervals for VOCs and chloride. Field screening results and observations will be logged on lithologic/soil sampling logs. Two delineation samples from each borehole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth. The delineation samples will be analyzed for BTEX, TPH, and chloride.
 - Upon completion of delineation activities, the boreholes will be properly abandoned with hydrated bentonite chips.

BTA will complete the delineation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. Based on the delineation data, a follow-up *Remediation Work Plan* will be submitted to the NMOCD to propose additional remedial activities and, if applicable, propose a naturally occurring chloride concentration to apply at the Site. NMOCD Notifications are included in Appendix E and the Form C-141 is included in Appendix F.

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

Sincerely, **Ensolum, LLC**

Vadie Streen

Hadlie Green Project Geologist

inos Cale

Aimee Cole Senior Managing Scientist

cc: Kelton Beaird, BTA Uffie Land Company

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Proposed Delineation and Background Soil Boring Locations
- Table 1Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Form C-141



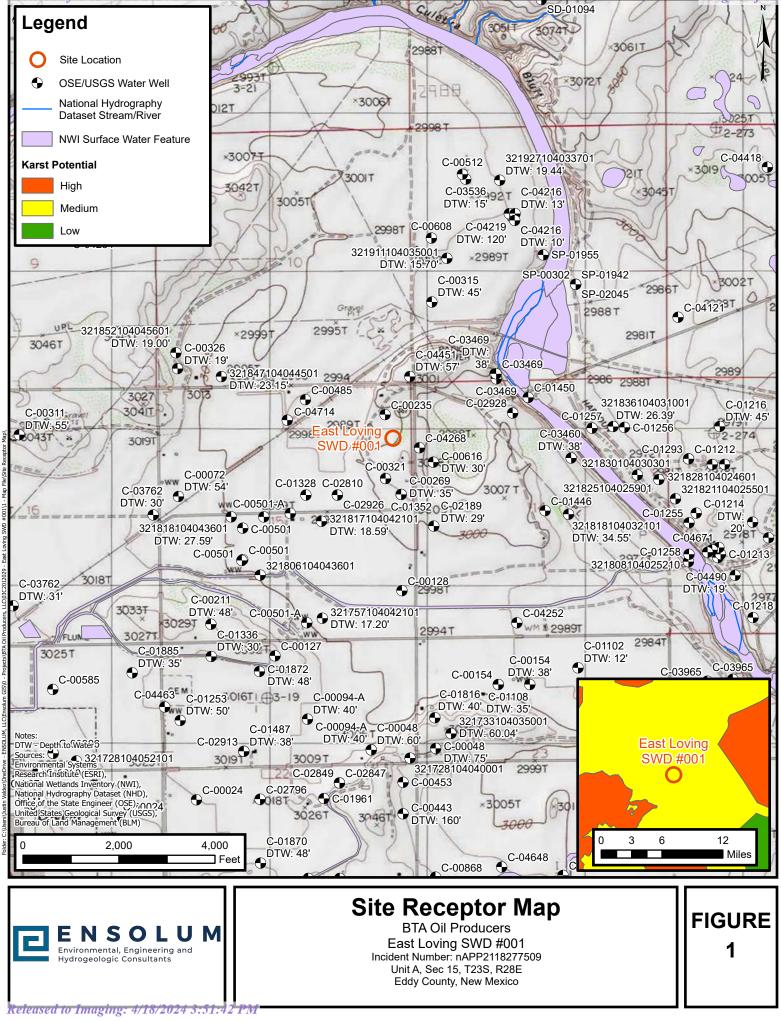


FIGURES

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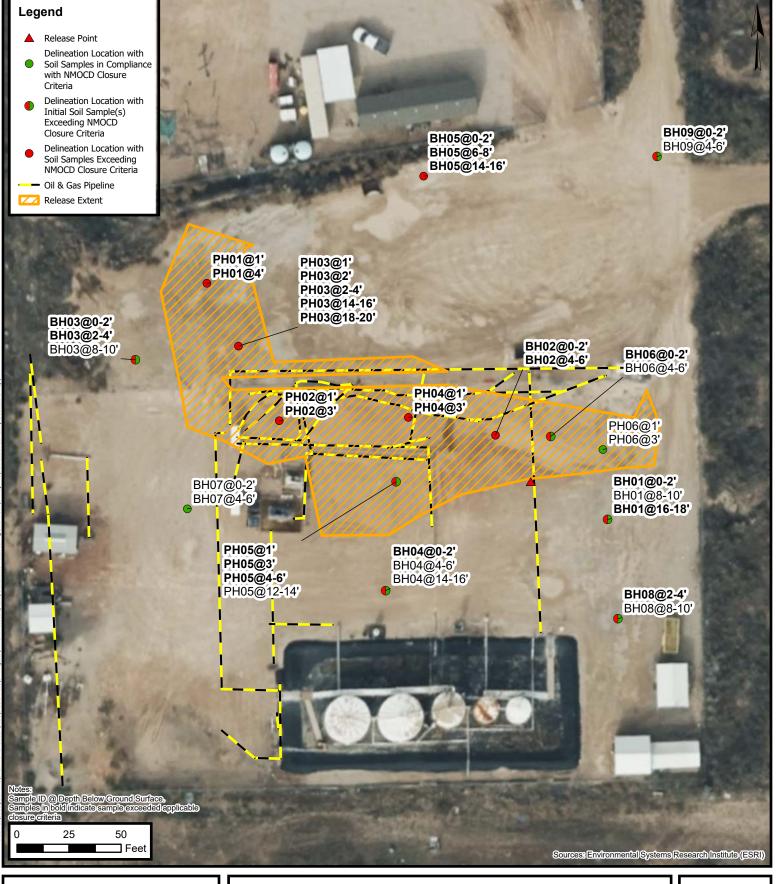
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FIGURE

3



Delineation Soil Sample Locations

BTA Oil Producers East Loving SWD #001 Incident Number: nAPP2118277509 Unit A, Sec 15, T23S, R28E Eddy County, New Mexico

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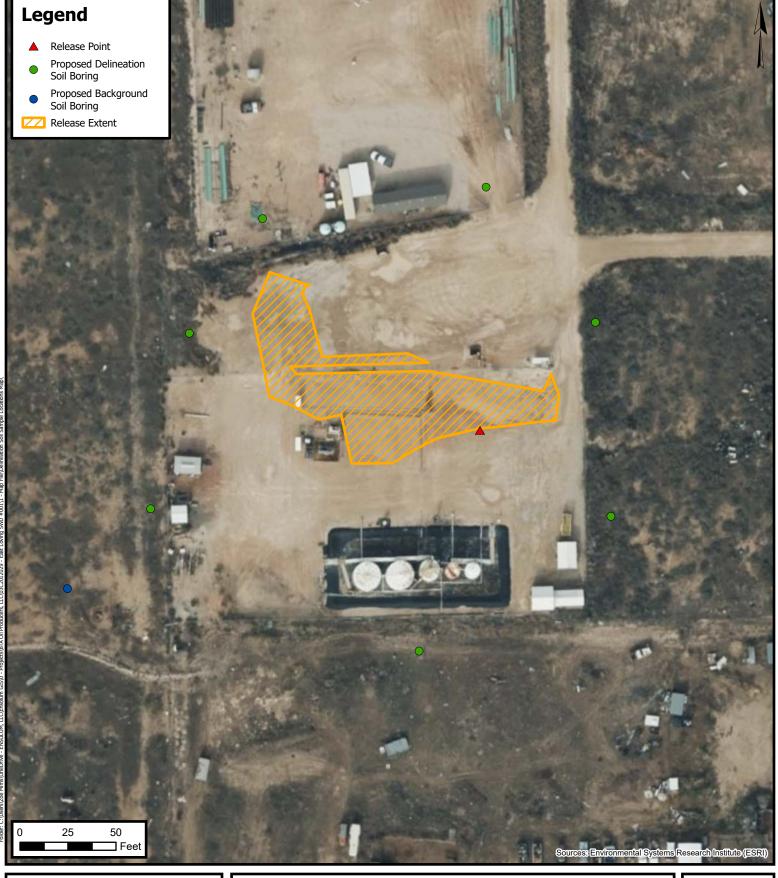
Environmental, Engineering and

Hydrogeologic Consultants

NSOLUM

FIGURE

4



Proposed Delineation and Background Soil Boring Locations

NSOLUM Environmental, Engineering and Hydrogeologic Consultants

BTA Oil Producers East Loving SWD #001 Incident Number: nAPP2118277509 Unit A, Sec 15, T23S, R28E Eddy County, New Mexico



TABLES

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				East BTA (TABLE 1 E ANALYTICA Loving SWD Dil Producers County, New N	#001 , LLC				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	a (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Asses	sment Soil Sar	nples	1	1	1	
SS01	05/15/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,000
SS02	05/15/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,800
SS03	05/15/2023	0.25	<0.050	<0.300	<10.0	16.5	14.9	16.5	31.4	9,000
SS04	05/15/2023	0.25	<0.050	<0.300	<10.0	19.1	<10.0	19.1	19.1	16,200
SS05	05/15/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	22,000
SS06	05/15/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS07	05/15/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS08	09/06/2023	0.5	<0.050	<0.300	<10	<10.0	<10.0	<10.0	<10.0	176
SS09	09/06/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS10	09/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SS11	12/06/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	•			Deline	eation Soil San	nples				
PH01	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,320
PH01	09/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
PH02	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,800
PH02	09/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,880
PH03	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860
PH03	09/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,130
PH03	12/05/2023	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,000
PH03	12/05/2023	14-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
PH03	12/05/2023	18-20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
PH04	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
PH04	09/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
PH05	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,680
PH05	09/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,400
PH05	12/05/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
PH05	12/05/2023	12-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
PH06	09/06/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH06	09/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS East Loving SWD #001 BTA Oil Producers, LLC Eddy County, New Mexico													
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600				
BH01	12/05/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520				
BH01	12/05/2023	8-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544				
BH01	12/05/2023	16-18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280				
BH02	12/05/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400				
BH02	12/05/2023	4-6	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	976				
BH03	12/05/2023	0-2	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,800				
BH03	12/05/2023	2-4	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608				
BH03	12/05/2023	8-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576				
BH04	12/06/2023	0-2	<0.050	<0.300	<10.0	26.9	11.0	26.9	37.9	7,600				
BH04	12/06/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480				
BH04	12/06/2023	14-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544				
BH05	12/06/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,560				
BH05	12/06/2023	6-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688				
BH05	12/06/2023	14-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912				
BH06	12/06/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390				
BH06	12/06/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352				
BH07	12/06/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512				
BH07	12/06/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112				
BH08	12/06/2023	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920				
BH08	12/06/2023	8-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544				
BH09	12/06/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340				
BH09	12/06/2023	6-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256				

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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APPENDIX A

Referenced Well Records

		1			ico Offic er Rig	v			U	РГ Г
get image list	WR File Nu Primary Pu Primary Sta	rpose: D(DM 72-1	2-1 DC MIT	Subbasin: DMESTIC ONE	C HOUSEH(Cross Re f OLD	ference:	-	
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POD N <u>C 0026</u> <u>C 0135</u>	<u>52</u>	Well Tag	Shallow	4 4 4 4	Q4Sec Tws Rng 2 15 23S 28E 2 15 23S 28E	587778	Y 3574773* 3574773*	Other	Location De	sc
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12/19/23 9:18 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters	are 1=N	W 2=N	JE 3=SW	4=SE)			
		(quarter	rs are sma	allest to	o largest)		(NAD83 UTM in meters)		
Well Tag POI	D Number	Q64 Q	16 Q4	Sec	Tws	Rng	Χ	Y	
C (00269	4	4 2	15	23S	28E	587778	3574773*	
Driller License:	212	Driller C	Compar	ıy:	FRI	EEK, R.H			
Driller Name:	FREEK, R.H.								
Drill Start Date:	03/01/1958	Drill Fin	ish Da	te:	0.	3/30/1958	Pl	ug Date:	
Log File Date:	04/08/1958	PCW Ro	v Date	:	04	4/14/1959	So	urce:	Shallow
Pump Type:	TURBIN	Pipe Dis	charge	Size	:		Es	timated Yiel	ld:
Casing Size:	6.00	Depth W	ell:		24	10 feet	De	epth Water:	35 feet
Wat	er Bearing Stratifi	cations:	То	op 1	Bottom	Descrip	ption		
			-	20	65	Shale/N	/ludstone/	Siltstone	
			20	00	205	Shale/N	/ludstone/	Siltstone	
< Comparison of the second sec	Casing Perf	orations:	То	op 1	Bottom				
			4	48	54				

*UTM location was derived from PLSS - see Help

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

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POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer Point of Diversion Summary

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Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	Х	X Y	
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^x Driller Lice	ense:	842	Driller Co	ompany	:	BR	NINSTO	DOL, M.I).	
Driller Nar	ne:	BRININSTOOL,	, M.D.							
Drill Start	Date:	10/22/1980	Drill Fini	sh Date	:	12	2/05/198	0 I	lug Date:	
Log File Da	ate:	12/09/1980	PCW Rev	Date:				S	ource:	Shallow
Ритр Туре	e:		Pipe Disc	harge S	ize:			I	Stimated Yield:	400 GPM
Casing Size	e:	9.63	Depth We	ell:		12	20 feet	Ι	Depth Water:	30 feet
x	Wate	er Bearing Stratif	ications:	Тор) E	Bottom	Descri	iption		
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				92	2	96	Shallo	w Alluviı	ım/Basin Fill	
X		Casing Per	forations:	Тор) E	Bottom				
				60)	120				

*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.

12/19/23 9:08 AM

POINT OF DIVERSION SUMMARY

internate Street		Ne		ico Office er Rig l	•			-	r
F	WR File Num	ber: C 0023	35	Subbasin: (2	Cross Ref	ference:	-	
	Primary Purp	ose: STK	72-12-1 LIV	/ESTOCK WATER	ING				
<u>get image list</u>	Primary Statu	IS: PMT	PERMIT						
	Total Acres:			Subfile:	-			Header: -	
	Total Diversio	n: 3		Cause/Case:	-				
	Own	er: LEE S.	WILLIAMS						
Documents	x on File								
			Status			From/			
	Trn # Doc	File/Act	1 2	Transaction Desc.		То	Acres	Diversion	Consumptive
images	199312 72121	<u>1950-07-17</u>	PMT LOG	C 00235		Т		3	
Current Po	x oints of Diversio)n							
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ροη Ν	lumber	Well Tag So	Q 10160)4Sec Tws Rng	х	Y	Other I	Location Des	c
C 0023		0	-	- 0		3575280*	W 1/2	Location Des	L .
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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, or suitability for any particular purpose of the data.

12/19/23 9:23 AM

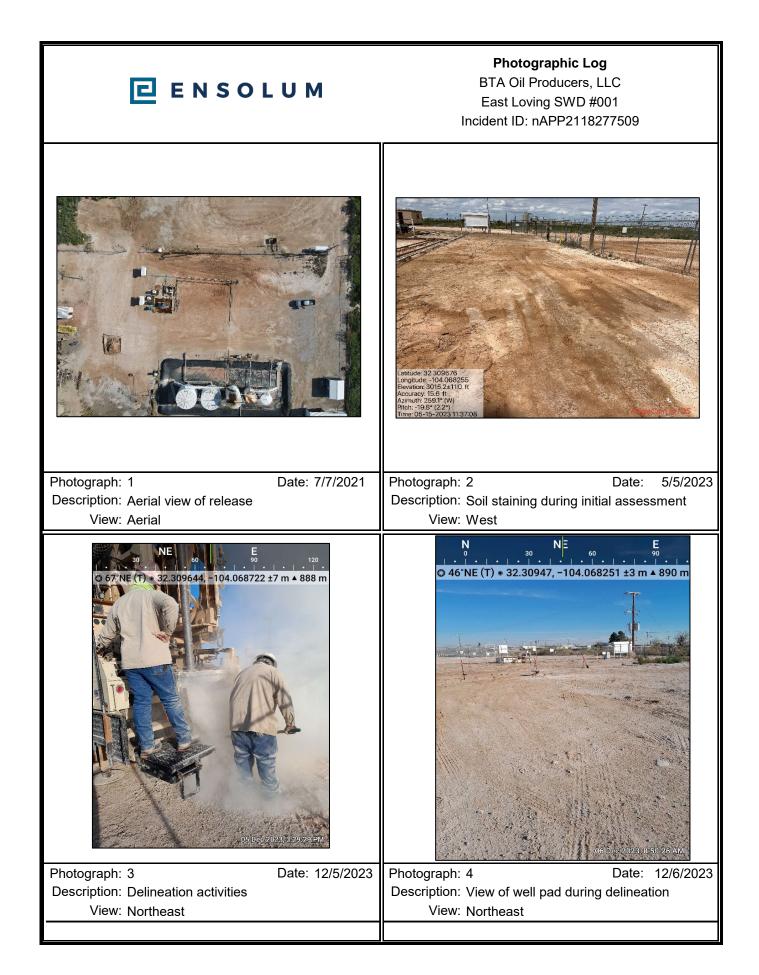
WATER RIGHT SUMMARY



APPENDIX B

Photographic Log

Released to Imaging: 4/18/2024 3:51:42 PM





APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 9/6/23			
				~				Site Name: East Loving SWD #0				
			N	>	ΟΙ		M	Incident Number: nAPP211827				
								Job Number: 03C2012029	, 303			
	11	THOL	OGIO		AMPLING	LOG		Logged By: Ronni Hayes	Method: Backhoe			
Coordinat								Hole Diameter: 3'	Total Depth: 4 ft bgs			
					vith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, res				
performed	d with 1	:4 dilut	ion fa	actor of soi	l to distilled	water. 40%	correctio	n factor included.				
Moisture Content Chloride	(mqq)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic I	Descriptions			
Dry 3,	735	0.6	N	PH01	1 1		SP	SAND, poorly sorted, tan, coarse, no odor, no stain				
Dry 3,:	735	0.2	N	PH01	2	2	SP	SAA				
Dry 3,5	556	0.4	N	PH01	3	SAA, some limestone gravel, coarse						
Dry 3,2	292	0.3	N	PH01	4	4	GP	SAND/GRAVEL MIX, abundant limestone gravel, poorly sorted, pale brown, no odor, no staining				
					-	-		Refusal at 4 ft bgs TD at 4 ft bgs				

						Sample Name: PH02	Date: 9/7/23
		S			R A	' Site Name: East Loving SWD #0	
				- 0		Incident Number: nAPP211827	
						Job Number: 03C2012029	
	LITHOLOG	GIC / SOIL S	AMPLING	LOG		Logged By: Ronni Hayes	Method: Backhoe
Coordinates: 32.						Hole Diameter: 3'	Total Depth: 3 ft bgs
Comments: Field performed with						PID for chloride and vapor, response of the second se	ectively. Chloride test
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic [Descriptions
Dry 14,476	0.7	N PHO2	1 - 1 -		SP	SAND, poorly sorted, tan, coarse, no odor, no staini	
Dry 3,231	0.6	N PHO2	2	2	SP	SAA, some limestone gra	vel, coarse
Dry 8,686	0.9	N PHO2	3 _	- 3 - 3 	GP	SAND/GRAVEL MIX, abun poorly sorted, pale brown Refusal at 3 ft bgs TD at 3 ft bgs	

								Sample Name: PH03	Date: 12-5-23
								Site Name: East Loving SWD #001	
				5	OL			Incident Number: nAPP21182775	
3. 4			-					Job Number: 03C2012029	~~
			GIC	/ 5011 54		06		Logged By: Ronni Hayes	Method: Air Rotary
Coordi	nates: 32.30							Hole Diameter: 6'	Total Depth: 20 ft bgs
					HACH Chlori	de Test Strir	s and PID	for chloride and vapor, respective	
	4 dilution fa								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
					1	0			
Dry	10,237	0.4	N	PH03	1 _	1	SP-GP	SAND, poorly sorted, tan, n coarse, no odor, no staining	
Dry	11,133	0.5	N	PH03	2	2	CCHE		ne, pale tan, poorly
Dry	2,464	-	Ν	PH03	2-4	2-4	SAA	SAA, medium brown	
Dry	862.4	-	Ν		-	4-6	SP-GP	SAND, sand with some grav light brown, fine to very fine	•
Dry	1,108.8	-	Ν		-	6-8	SAA	SAA, light tan, fine to coarse	
Dry	2,144.8	-	Ν		-	8-10	SAA	SAA, medium tan	
Dry	-	-	Ν		-	10-12	GP	GRAVEL, sandy gravel mix, i light brown, coarse grained	
Dry	1,299.2	-	Ν		-	12-14	SAA	SAA	,
Dry	2,144.8	-	Ν	PH03	14-16	14-16	SP-GP	SAND, sand with gravel, me coarse grained, no odor, no	
Dry	1,400	-	Ν		-	16-18	SAA	SAA	occurring.
Dry	526	-	N	PH03	18-20	18-20	SP-GP	SAND, sand with gravel, poo fine to coarse grained, no c	
					_	L		TD at 20 ft bgs	

							Sample Name: PH04	Date: 9/6/23
			C	ΟΙ		R A	Site Name: East Loving SWD #00	
			3				Incident Number: nAPP2118277	
							Job Number: 03C2012029	
	LITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Ronni Hayes	Method: Backhoe
Coordinates: 3	2.3096497	7, -10	4.0683143				Hole Diameter: 3'	Total Depth: 3 ft bgs
							PID for chloride and vapor, respe factor included.	ctively. Chloride test
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
Dry 6,300	0.6	N	PH04	1 - - -		SP	SAND, poorly sorted, tan, coarse, no odor, no stainir	
Dry 5,365	0.8	Ν	PH04	2	2	SP	SAA, some limestone grav	el, coarse
Dry 4,189	1.6	N	PH04	3	3	GP	SAND/GRAVEL MIX, abund poorly sorted, pale brown	
				-	-		Refusal at 3 ft bgs TD at 3 ft bgs	

								Sample Name: PH05	Date: 9/7/23		
				C				Site Name: East Loving SWD #001			
			N	3	Ο			Incident Number: nAPP211827750			
								Job Number: 03C2012029			
	L	ITHOLO	DGIC	/ SOIL S	AMPLING	LOG		Logged By: Ronni Hayes	Method: Backhoe		
Coordi	nates: 32.3							Hole Diameter: 3'	Total Depth: 14 ft bgs		
Comm	ents: Field	screening	g con	ducted witl	h HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ely. Chloride test performed		
with 1	:4 dilution f	factor of s	soil to	o distilled w	vater. 40% co	prrection fac	tor includ	ed.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	4,054.4	-	Ν		- 0-2 -	0-2	SP-GP	SAND, sandy gravel, poorly coarse, no odor, no staining			
Dry	1,775.2	-	N		2-4	2-4	SAA	SAA			
Dry	716.8	-	Ν	PH05	4-6	- - 4-6 -	SP	SAND, gravelly sand, light ta odor, no staining, poorly so			
Dry	716.8	-	N		6-10	6-10	SAA	SAA			
Dry	649.6	-	N		10-12	10-12	SP-GP	SAND, sandy gravel, mediur grained, no odor, no stainin			
Dry	414.4	_	N	PH05	12-14	12-14	SAA	SAA			
	717.7			11105	<u> </u>	_ 12 17	577				
						L		TD at 14 ft bgs			

Ĩ								Sample Name: PH06	Date: 9/7/23
				C				Site Name: East Loving SWD #001	
			N	>	ΟΙ			Incident Number: nAPP211827750	9
								Job Number: 03C2012029	
	I	LITHOL	OGI		SAMPLING	G LOG		Logged By: Ronni Hayes	Method: Backhoe
Coordina	ates: 32	.309605,	, -104	.068012				Hole Diameter: 3'	Total Depth: 3 ft bgs
			-					PID for chloride and vapor, respect	tively. Chloride test
performe	ed with	1:4 dilut	tion fa	actor of so	il to distilled	water. 40%	correctio	n factor included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
Dry 3	3,853	0.2	N	PH06	1 - 1		SP	SAND, poorly sorted, tan, no coarse, no odor, no staining.	
Dry 2	2,201	0.9	N	PH06	2	2	SP	SAA, some limestone gravel,	coarse
Dry 1	1,574	1.1	N	PH06	- 3 -	- - - -	GP	SAND/GRAVEL MIX, abundat poorly sorted, pale brown, n	-
					-	-		Refusal at 3 ft bgs TD at 3 ft bgs	

	Sample Name: BH01 Date: 12-5-23											
		-						Site Name: East Loving SWD #001				
			N	2	UL	. U		Incident Number: nAPP2118277509				
- 57								Job Number: 03C2012029				
		тного	GIC	/ SOIL SA	MPLING	Logged By: Ronni Hayes	Method: Air Rotary					
Coordi	nates: 32.30		-			Hole Diameter: 6"	Total Depth: 18 ft bgs					
	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. 40% correction factor included.											
Moisture Content (ppm) (ppm)							Lithologic De	escriptions				
Dry	2,643.2	-	N	BH01	0-2	L - 0-2	SP	SAND, poorly sorted, medi fine to coarse, no odor, no				
Dry	862.4	-	N		-	2-4	CCHE	CALICHE, sandy limestone light brown, no odor, no st	gravel, poorly graded, raining			
Dry	789.6	-	Ν		-	4-6	SP-GP	SAA, some limestone grave	el, coarse			
Dry	789.6	-	N		-	6-8	GP	SAND/GRAVEL MIX, abund poorly sorted, medium bro	-			
Dry	498.4	-	N	BH01	8-10	8-10	SAA	SAA				
Dry	403.2	-	N		-	10-12	SAA	SAA				
Dry	280	-	N		-	12-14	GP	GRAVEL, sandy limestone g light brown, no odor, no st				
Dry	403.2	-	Ν		-	14-16	SAA	SAA				
Dry	212.8	-	N	BH01	16-18	16-18	GP-GM	GRAVEL, sandy semi rounc staining, poorly sorted, ligl	•			
	TD at 18 ft bgs											
l												

Sample Name: BH02 Date: 12-5-23 Sample Name: BH02 Date: 12-5-23 Sample Name: BH02 Date: 12-5-23 Introductic / Soil SAMPLING LOG Coged 97, Ronne: 1492 Method: Air Rotary Coordinates: 32:3096252, -104.0681792 Method: Air Rotary Method: Air Rotary Coordinates: 32:3096252, -104.0681792 Hote Diameter: 6* Total Depth: 22 h bgs Comments: Filled comments: Filled water. 40% correction Factor included. Method: Air Rotary with 1:4 dilution factor of soil to distilled water. 40% correction Factor included. Method: Air Rotary avg big 00 00 00 Sample berght (https:) Depth (https:) Dig y y y y y y y y y y y y y y y y y y y						Sample Name: RU02	Date: 12-5-23						
Inthologic / Soil SAMPLING LOG LITHOLOGIC / Soil SAMPLING LOG Logged By: Ronni Hayes Method: Air Rotary Coordinates: 32.3096252, 104.0681792 Hole Diameter: 6" Total Depth: 22 ft bgs 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. 40% correction factor included. Ithole Diameter: 6" Total Depth: 22 ft bgs Dry 2,464 - N BH02 O-2 O-2 SP Dry 2,464 - N BH02 O-2 O-2 SP Dry 1,204 - N BH02 O-2 O-2 SP-GP Dry 588 - N BH02 A-6 SP-GP TD at 6 ft bgs						•				Dale. 12-3-23			
Inthologic / Soil SAMPLING LOG LITHOLOGIC / Soil SAMPLING LOG Logged By: Ronni Hayes Method: Air Rotary Coordinates: 32.3096252, 104.0681792 Hole Diameter: 6" Total Depth: 22 ft bgs 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. 40% correction factor included. Ithole Diameter: 6" Total Depth: 22 ft bgs Dry 2,464 - N BH02 O-2 O-2 SP Dry 2,464 - N BH02 O-2 O-2 SP Dry 1,204 - N BH02 O-2 O-2 SP-GP Dry 588 - N BH02 A-6 SP-GP TD at 6 ft bgs		<u> </u>	- 1		5	D			Site Name: East Loving SWD #001				
LITHOLOGIC / SOIL SAMPLING LOG Logged By: Ronni Hayes Method: Air Rotary Coordinates: 32.3096252, 1:04.0681792 Hole Diameter: 6" Total Depth: 22 ft bgs 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. 40% correction factor included. Lithologic Descriptions 91 total 92 (fig. 5) 10				-	•								
Coordinates: 32.3096252, -104.0681792 Hole Diameter: 6" Total Depth: 22 ft bgs 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. 40% correction factor included. Lithologic Descriptions and by the second scale of the second	┣───					MDUNC		Mathadi Air Data					
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. 40% correction factor included. an store of soil to distilled water. 40% correction factor included. an store of soil to distilled water. 40% correction factor included. an store of soil to distilled water. 40% correction factor included. an store of soil to distilled water. 40% correction factor included. bry an store of soil to distilled water. 40% correction factor included. Dry 2,464 - N BH02 0-2 0-2 SP SAND, poorly sorted, medium brown, noncohesive, fine to coarse, no odor, no staining. Dry 1,204 - N BH02 0-2 -2-4 CCHE CALICHE, limestone gravel, no odor, no staining, medium brown, poorly sorted Dry 588 - N BH02 4-6 4-6 SP-GP TD at 6 ft bgs	Constit												
with 1:4 dilution factor of soil to distilled water. 40% correction factor included. understand understand <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>da Tact Strin</td><td></td><td></td><td></td></t<>							da Tact Strin						
Dry 2,464 - N BH02 0-2 SP SAND, poorly sorted, medium brown, noncohesive, fine to coarse, no odor, no staining. Dry 1,204 - N A 2-4 CCHE CALICHE, limestone gravel, no odor, no staining, medium brown, poorly sorted Dry 588 - N BH02 4-6 4-6 SP-GP TD at 6 ft bgs Dry 588 - N BH02 4-6 4-6 SP-GP TD at 6 ft bgs		with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Drv 1,204 - N BH02 4-6 2-4 CCHE CALICHE, limestone gravel, no odor, no staining. Dry 588 - N BH02 4-6 SP-GP TD at 6 ft bgs	Moisture Content	Symbol Symbol						USCS/Rock Symbol	Lithologic Des	scriptions			
Drv 1,204 - N BH02 4-6 2-4 CCHE CALICHE, limestone gravel, no odor, no staining. Dry 588 - N BH02 4-6 SP-GP TD at 6 ft bgs						1	l -						
Dry 588 - N BH02 4-6 4-6 SP-GP TD at 6 ft bgs	Dry	2,464	-	Ν	BH02	0-2	0-2	SP					
Dry 588 - N BH02 4-6 4-6 SP-GP TD at 6 ft bgs						-	$\frac{1}{2}$						
	Dry	1,204	-	N		-	2-4	CCHE	CALICHE, limestone gravel, medium brown, poorly sort	no odor, no staining, ed			
	Dry	588	-	N	BH02	4-6	4-6	SP-GP	TD at 6 ft bgs				
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1	Sample Name: BH03 Date: 12-5-23											
				>	ΟL	. U		Site Name: East Loving SWD #001 Incident Number: nAPP2118277509				
-25						Job Number: 03C2012029						
	1		GIC		AMPLING	Logged By: Ronni Hayes Method: Air Rotary						
Coordi				-			Hole Diameter: 6" Total Depth: 20 ft bgs					
Coordinates: 32.3097293, -104.0687366Hole Diameter: 6"Total DepthComments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride												
perfor	performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content Content (ppm) (ppm) (ppm) (ppm) (ppm) USCS/Rock Symbol							USCS/Rock Symbol	Lithologic Descriptions				
Dry	2,828	-	N	BH03	0-2 	1 0-2 	SP	SAND, poorly sorted, medium brown, noncohesive fine to coarse, no odor, no staining.				
Dry	588	-	N	BH03	2-4	2-4	CCHE	CALICHE, sandy limestone gravel, poorly sorted, medium brown, no odor, no staining				
Dry	526.4	-	N			4-6	SAA	SAA				
Dry	274.4	-	Ν		-	6-8	GP	SAND/GRAVEL MIX, abundant limestone gravel, poorly sorted, medium brown, no odor, no staining				
Dry	364	-	Ν	BH03	8-10	8-10	SAA	TD at 10 ft bgs				
					-	- - -						
					-	- - - -						
					-	- - -						
					-	-						
					-	-						
			i	I I		<u> </u>	l	1				

								Sample Name: BH04	Date: 12-6-23		
				6		Site Name: East Loving SWD #001					
				2	OL	Incident Number: nAPP211827750	9				
								Job Number: 03C2012029			
	L	THOLO	GIC	/ SOIL SA	MPLING L	Logged By: Ronni Hayes	Method: Air Rotary				
Coordi	nates: 32.30					Hole Diameter: 6"	Total Depth: 16 ft bgs				
					HACH Chlori ter. 40% cor	for chloride and vapor, respectivel	y. Chloride test performed				
with 1.							1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions		
Dry	7,924	-	N	BH04	0-2	0-2	SM-SP	SAND, poorly sorted, mediu fine to coarse, no odor, no s			
Dry	789.6	-	N		-	2-4	CCHE	CALICHE, limestone gravel, r medium brown, poorly sorte			
Dry	526.4	-	N	BH04	4-6	4-6	SP-GP	SAND, gravelly sand, no odo brown, poorly sorted	r, no staining, light		
Dry	235.2	-	N		- - -	6-8	SAA	SAA			
Dry	<196	-	N		-	8-10	SP-GP	SAND/GRAVEL MIX, abunda poorly sorted, medium brow			
Dry	<196	-	N		-	10-12	SAA	SAA			
Dry	364	-	N		-	12-14	GP	GRAVEL, sandy limestone gr light brown, no odor, no sta			
Dry	235.2	-	N	BH04	14-16	14-16	SAA	SAA			
					-	_		TD at 16 ft bgs			
L											

								Sample Name: BH05	Date: 12-5-23
								Site Name: East Loving SWD #00	
				> (OL			Incident Number: nAPP2118277	
5				-				Job Number: 03C2012029	505
							Mathady Air Datany		
^oord:	nates: 32.30			, 		.00		Logged By: Ronni Hayes Hole Diameter: 6"	Method: Air Rotary Total Depth: 16 ft bgs
						do Tost Strin	c and DID	for chloride and vapor, respective	
					ter. 40% cori		or included		ely. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	2,828	-	N	BH05	0-2 _	L 0-2	SM-SP	SAND, poorly sorted, medi fine to coarse, no odor, no	
Dry	2,296	2.6	N			2-4	CCHE	CALICHE, limestone gravel medium brown, poorly sor	, no odor, no staining, ted
Dry	1,742.6	-	N		-	4-6	SP-GP	SAA, some limestone grave	el, coarse grained
Dry	526.4	-	N	BH05	6-8	6-8	SAA	SAA	
Dry	470.4	-	N			8-10	SP-GP	SAND/GRAVEL MIX, abund poorly sorted, medium bro	lant limestone gravel, own, no odor, no stainin
Dry	862.4	-	N		-	10-12	SAA	SAA	
Dry	649.6	-	N		-	12-14	GP	GRAVEL, sandy limestone ; reddish brown, no odor, n	
Dry	562.4	-	N	BH05	14-16	14-16	SAA		
					-	-		TD at 16 ft bgs	
			_						

ENSOLUM Site Name: East Loving SWD #dot Incident Number: MP22118277509 Job Number: 0322012029 UTHOLOGIC / SOIL SAMPLING LOG Logge N cont Have Method: Air rotary Coordinate: 32.3096241, 104.0680930 Logge N cont Have Method: Air rotary Contract: Fill Screening conducted with HACH Chiloride Test Strips and PID for childred and vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Image: Strips and PID for Childre and Vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Image: Strips and PID for Childre and Vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Image: Strips and PID for Childre and Vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Image: Strips and PID for Childre and Vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Image: Strips and PID for Childred and Vapor, respectively. Childred test performed with 1:4 dilution factor of soil to distilled water. Depth (ft bgs) Depth (ft									Sample Name: BH06	Date: 12-6-23	
Job Number: 03C2012029 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Ronni Hayes Method: Air rotary Coordinates: 32.3096241, -104.0680930 Hole Diameter: 6" Total Depth: 6' bgs 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. 40% correction factor included. and to be the biase of the bi					~						
Job Number: 03C2012029 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Ronni Hayes Method: Air rotary Coordinates: 32.3096241, -104.0680930 Hole Diameter: 6" Total Depth: 6' bgs 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. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. and the dig to the distilled water. 40% correction factor included. Dry to the dig to the distilled water. 40% correction factor included. Dry 2,296 Y BHO6 0-2 SP-GP SAND, gravelly sand, poorly sorted, medium brown, no odor, noncohesive Dry 364 N BHO6				N	3			Ν			
LITHOLOGIC / SOIL SAMPLING LOG Logged By: Ronni Hayes Method: Air rotary Coordinates: 32.3096241, -104.0680930 Hole Diameter: 6" Total Depth: 6' bgs 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. 40% correction factor included. and the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Depth (ft bgs) Depth (ft bgs) <td< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td colspan="3"></td></td<>											
Coordinates: 32.3096241, -104.0680930 Hole Diameter: 6" Total Depth: 6' bgs 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. 40% correction factor included. and tight to performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Depth (ft bgs) Depth (f		L	ITHOLO	OGIC	/ SOIL S	AMPLING		Method: Air rotary			
performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. an tig bill tig bill <thtig bill<="" th=""> tig bill <tht< td=""><th>Coord</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tht<></thtig>	Coord										
Dry 2,296 - Y BH06 0-2 0-2 SP-GP SAND, gravelly sand, poorly sorted, medium brown, no odor, noncohesive Dry 364 - N - 2-4 CCHE CALICHE, sandy gravel, poorly sorted, medium to light brown color, no odor, noncohesive Dry 369.6 - N BH06 4-6 4-6 GP GRAVEL, sandy gravel, poorly sorted, light brown color, no odor, noncohesive		ctively. Chloride test									
Dry 364 - N - 2-4 CCHE CALICHE, sandy gravel, poorly sorted, medium to light brown color, no odor, noncohesive Dry 369.6 - N BH06 4-6 4-6 GP GRAVEL, sandy gravel, poorly sorted, light brown color, no odor, noncohesive	Moisture Content							Lithologic D	escriptions		
Dry 369.6 - N BH06 4-6 4-6 GP GRAVEL, sandy gravel, poorly sorted, light brown color, no odor, noncohesive color, no odor, noncohesive											
color, no odor, noncohesive	Dry	364	-	N		-	2-4	CCHE		•	
TD at 6' bgs	Dry	369.6	-	Ν	BH06	4-6	- _ 4-6 -	GP			
						-	-		TD at 6' bgs		

				Sample Name: BH07	Date: 12-6-23					
	NC	OLU	NЛ	Site Name: East Loving SWD #00	1					
			Incident Number: nAPP2118277509							
			Job Number: 03C2012029							
		SAMPLING LOG	Logged By: Ronni Hayes	Method: Air rotary						
Coordinates: 32.3095			Hole Diameter: 6"	Total Depth: 6 ft bgs						
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. C performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.										
Moisture Content Chloride (ppm) Vapor	(ppm) Staining Sample ID	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions					
Dry 526.3 -	N BH07			CALICHE, sandy gravel, me fine to coarse grained, poo						
Dry 235.2 -	N	- 2-4 -	SP-SM	SAND, gravelly sand, reddi staining, poorly graded	sh brown, no odor, no					
Dry 470.4 -	N BH07	4-6 _ 4-6	SAA	SAA						
		1 1		TD at 6 ft bgs						

					Janiple Name: DRUS	U/dtH_1/-D-/3
			Sample Name: BH08 Date: 12-6-23			
		D L	Site Name: East Loving SWD #001			
			Incident Number: nAPP2118277509			
LITHOLOG	IC / SOIL SA	AMPLING		Method: Air Rotary		
	and an end of the			Total Depth: 10 ft bgs		
					y. Chloride test performed	
Vapor (ppm)	Staining Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
		<u> </u>	L			
-	N	-	0-2	SP	SAND, poorly sorted, mediu fine to coarse, no odor, no s	
-	N BH08	2-4	2-4	CCHE	CALICHE, sandy limestone g medium brown, no odor, no	
-	N	-	4-6	SAA	SAA	
-	N	- - -	6-8	GP	SAND/GRAVEL MIX, abunda poorly sorted, medium brov	
-	N BH08	8-10	8-10	SAA	SAA, light brown-tan	
		-	-		TD at 10 ft bgs	
F	screening co factor of soil Abou (bbu) - - - -	screening conducted with factor of soil to distilled wa	screening conducted with HACH Chlorid factor of soil to distilled water. 40% con- bode (mad) (initial for the solution - N BH08 2-4 - N BH08 2-4	Factor of soil to distilled water. 40% correction factor Image: Colspan="3">Image: Colspan="3">Colspan="3">Colspan="3">Depth Depth (ft bgs) Image: Colspan="3">Image: Colspan="3">Depth (ft bgs) Image: Colspan="3">Image: Colspan="3">O-2 Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">O-2 Image: Colspan="3">Image: Colspan="3" Image: Colspan="3">Image: Colspan="3" Image:	screening conducted with HACH Chloride Test Strips and PID factor of soil to distilled water. 40% correction factor included Tode N - N BH08 2-4 - N BH08 2-4 - N BH08 2-4 N BH08 2-4 	Hole Diameter: 6" screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively factor of soil to distilled water. 40% correction factor included. Image: Series of the

-								Sample Name: BH09	Date: 12-6-23
								Site Name: East Loving SWD #001	
		£	N		ΟΙ			Incident Number: nAPP211827750	
10								Job Number: 03C2012029	
		LITHOL	OGI		SAMPLING	Logged By: Ronni Hayes	Method: Air rotary		
Coordi		2.309994						Hole Diameter: 6"	Total Depth: 8' bgs
Comm	ents: Fie	ld screen	ing co	onducted v	vith HACH Cl	PID for chloride and vapor, respec	tively. Chloride test		
perfor	med with	n 1:4 dilut	tion f	actor of so	il to distilled	n factor included.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Dry 2,296 - N PH09 0-2 0-2 SP-GP								SAND, gravelly sand, poorly sorted, medium brown, no odor, noncohesive	
Dry	1,204	-	N		-	2-4	CCHE	CALICHE, sandy gravel, poor brown color, no odor, nonco	
Dry	716.8	-	N		-	4-6 -	GP	GRAVEL, sandy gravel, poor color, no odor, noncohesive	-
Dry	319.4	-	Ν	PH09	6-8	6-8	SAA	SAA	
						L		TD at 8' bgs	



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



May 18, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EAST LOVING SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 07 0.25' (H232421-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/16/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	117	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 09 0.25' (H232421-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/16/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	220	110	200	3.67	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	217	109	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/22/2024 2:16:50 PM



May 18, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EAST LOVING SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 01 0.25' (H232420-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	05/16/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 02 0.25' (H232420-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	05/16/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	122 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 03 0.25' (H232420-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	05/16/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	16.5	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	14.9	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	128 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 04 0.25' (H232420-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	05/16/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	19.1	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	128 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 05 0.25' (H232420-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	05/16/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/15/2023	Sampling Date:	05/15/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 06 0.25' (H232420-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.38	119	2.00	6.10	
Toluene*	<0.050	0.050	05/16/2023	ND	2.37	119	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.31	115	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	7.01	117	6.00	5.14	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/16/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	215	108	200	0.445	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	193	96.5	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/22/2024 2:16:50 PM

NAC CHAIN-OF-CUSTODY ANI (575) 393-2476 Image: Company: Character Parket: Character Project.Owner: Character Proj	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By: Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client analyses. All claims including those for negligence and any other ca genrice. In no event shall Cardinul be liable for incidental or contexpu- villations or successor arishon our of or trahated the performance of	e 200 202 202 202 202 202 202 202 202 202	Lab I.D. Sample I.D.	Address: 312 Audre city: Carris Dada Phone #: 432 SS 7 889 Project #: 03 20120 2 Project Location: 32 308 Sampler Name: Dm) trug		Labora
DATE DATE	erved Temp. °C 5,1	23 Received By: Received By:	and client's exclusive remedy for any claim arising whether based in by other cause whatbower shall be deemed waived unless made and in consequential damages, including without findation, business in mance of services hereuroter two cudhaut, regardless of whether su	+	(G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER COIL	f = Parks + f us $state: //M zip: d82$ Fax #: Project Owner: Project Owner: $SWD #001$ $SWD #001$ $SWD #001$ $SWD #001$ $SWD #001$	11 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Insolum, LLC	atories
N-OF-CUSTODY AND AN ANALYSIS ANALYSIS DHALLORING DHALLO	(Initials)	ra Alleladdyc	n contract or lot, shall be limited to the amount paid by the clien mything and necked by Cardinal within 30 days after completion mptions, loss of use, or loss of profils incurred by client, its usine cut claim is based on any of the adove stated reasons or ofter	560 A T 560	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : SUS	Company: ST Attn: CeV14 Address: 1045 City: Midlaud State: TX Zip: Phone #: 432 Fax #:	# BILL	CHAI
	Standard Rush 5°C	Result: D Yes D No Add'I Phone #: Its are emailed. Please provide Email address Way Markov OV No M SD / KS:	sppli	e	- TPH	RIPES	ANALYSIS	N-OF-CUSTODY AND AN/

Page 9 of 9



September 11, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EAST LOVING SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 09/07/23 11:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 08 0.5' (H234853-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.94	97.1	2.00	0.825	
Toluene*	<0.050	0.050	09/08/2023	ND	1.93	96.6	2.00	0.0764	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.06	103	2.00	0.345	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.16	103	6.00	1.17	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2023	ND	176	88.1	200	0.226	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	193	96.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 10 0.5' (H234853-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.94	97.1	2.00	0.825	
Toluene*	<0.050	0.050	09/08/2023	ND	1.93	96.6	2.00	0.0764	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.06	103	2.00	0.345	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.16	103	6.00	1.17	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2023	ND	176	88.1	200	0.226	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	193	96.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 01 1' (H234853-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.94	97.1	2.00	0.825	
Toluene*	<0.050	0.050	09/08/2023	ND	1.93	96.6	2.00	0.0764	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.06	103	2.00	0.345	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.16	103	6.00	1.17	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2023	ND	176	88.1	200	0.226	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	193	96.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 01 C 4' (H234853-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.94	97.1	2.00	0.825	
Toluene*	<0.050	0.050	09/08/2023	ND	1.93	96.6	2.00	0.0764	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.06	103	2.00	0.345	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.16	103	6.00	1.17	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 05 1' (H234853-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 05 B 3' (H234853-06)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	108	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 03 1' (H234853-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	09/07/2023	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 03 A 2' (H234853-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	98.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 02 1' (H234853-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 02 B 3' (H234853-10)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 06 1' (H234853-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 06 B 3' (H234853-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 04 1' (H234853-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/07/2023	Sampling Date:	09/06/2023
Reported:	09/11/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 04 B 3' (H234853-14)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	09/08/2023	ND	2.07	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.00	100	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.03	100	6.00	1.57	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	09/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Oti	Relinquished By:	artitistes or successors arising out of or related to the perf Relinquished, By:	PLEASE NOTE: Labity and Da malyses. All claims including the	10	00	8	2-6	10	3-	4	N	2	1	Lab I.D.	- HALF PART OFFICE	Sampler Name: Ronni Hayes	Project Location	Project Name: E.	Project #: 03C2012029	Phone #: 720-384-7365	City: Carlsbad	Address: 3122 N	Project Manager: Aimee Cole	Company Name	
her	M	al be liable for incidental or cons t of or related to the performanc	billy and Damages. Cardinal's liability and client's e including those for negligence and any other cause	OR	DHAZ	PHOZA	DHAS F	DAVID D	DHV V	0401	PHA	5510	5578	Sample I.D.		Ronni Hayes	Project Location: 32.309559, -104.068115	Project Name: East Loving SWD #001	12029	4-7365		Address: 3122 National Parks Hwy	r: Aimee Cole	101 East Mariar (575) 393-232(Company Name: Ensolum, LLC	abor
amp. °C	Time: 35	al damages, vices hereur	lient's exclusive remedy for any r cause whatsoever shall be de	2-	-1	1-	-3	2 -	-4	1	- 4	0,2		Depth (feet))68115	-	Project Owner:	Fax #	State: NM			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC	atories
S.1 Sample Condition Cool Intact Pres Pres	Persived But and	Mhout limitation, business interrupt dinal, regardless of whether such Received By	claim arise	X	C X	X I C		X	X			x	_# 0 GF W/ SO OIL	2.01	P. MATRIX			1.20	er: RTA 0.1	-ip. 00220	7in: 88220			38240 -2476	Sa
n CHECKED BY: (Initials)	Allabore	ceived by of use, o ased upo	07	X	X	X	×	X	X	X	X	X q/atos	OT AC	HER : D/BASE: / COOL HER :	SERV.	Fax #:	Phone #	City: Midland	Address: 104 S Pecos St	Attn: Kelton Beaird	Company: BTA Oil	7.0. #:	DILL		
	are email	te completion of the applicable client, its subsidiaries, easons or otherwise.	1239 V V V	1235	1220	1215	1267	1203	1137	821	1010 1 1	X X Shbo	TIME	BTEX TPH	SAMPLING		9701		tos St	h			10		CHAIN-OF-CU
Standard 12 Bacteria (only) Sample Condition	Yes □ No Add'I Phone #: ed. Please provide Email address:)		V									×	(ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Vner 1 33-2 88	Image: Container GROUNDWAT GROUNDWAT WASTEWATER X X X OIL SSLUDGE OTHER: ACID/BASE: X X X Image: Container X X X OTHER: ACID/BASE: X X X Image: Container Image: Container <th>e remedy for any oever shall be de ages, including w</th> <th>Yerbal Result: Yes No Add'I Phone #: Time; 35 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</th> <th>Observed Temp. C 21 Sample Condition Currows av</th>	e remedy for any oever shall be de ages, including w	Yerbal Result: Yes No Add'I Phone #: Time; 35 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Observed Temp. C 21 Sample Condition Currows av
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December 13, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EAST LOVING SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 12/08/23 16:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 05 4-6' (H236593-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 05 12-14' (H236593-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 02 0-2' (H236593-03)

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	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 02 4-6' (H236593-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 03 2-4' (H236593-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 03 14-16' (H236593-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 03 18-20' (H236593-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 01 0-2' (H236593-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 01 8-10' (H236593-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 01 16-18' (H236593-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 \$	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 03 0-2' (H236593-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 03 2-4' (H236593-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/05/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 03 8-10' (H236593-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 04 0-2' (H236593-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	26.9	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	11.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 04 4-6' (H236593-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 04 14-16' (H236593-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	232	116	200	1.69	QR-03
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	217	109	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 05 0-2' (H236593-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	232	116	200	1.69	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	217	109	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	55.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.9	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 05 6-8' (H236593-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	232	116	200	1.69	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	217	109	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 05 14-16' (H236593-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: SS 11 @ 0.5' (H236593-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 06 0-2' (H236593-21)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	71.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 06 4-6' (H236593-22)

BTEX 8021B	mg,	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 07 0-2' (H236593-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.3	% 49.1-14	8						

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 07 4-6' (H236593-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 08 2-4' (H236593-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	66.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: BH 08 8-10' (H236593-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	201	101	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	200	99.9	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 09 0-2' (H236593-27)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	12/11/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	201	101	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	200	99.9	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	EAST LOVING SWD #001	Sampling Condition:	Cool & Intact
Project Number:	03C2012029	Sample Received By:	Dionica Hinojos
Project Location:	BTA 32.309559,-104.068115		

Sample ID: PH 09 6-8' (H236593-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	115	2.00	0.934	
Toluene*	<0.050	0.050	12/11/2023	ND	2.27	114	2.00	5.24	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.37	118	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.03	117	6.00	6.91	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/11/2023	ND	432	108	400	7.69	
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	12/11/2023	ND	201	101	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	200	99.9	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Lab I.D. Sample I.D. Ueptin 1 7H65 4-6 6 2 7H65 4-6 6 3 8H62 6-7 9 4 7H65 4-6 6 9 5 7H65 7-7 9 9 6 7H65 7-7 9 9 7 7 7 7 1	CARDINAL John Caboratories 101 East Martand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Name: Ensolum, LLC nager: Aire Cole 3/22 National Parks Hind 3/22 National Parks Hind alshad State: NIN Zip: 8 720 384 73 Los Fax 8: 030 705 7655 (HProject Owner: Mara 120 384 73 Los Fax 8: 030 705 7655 (HProject Owner: Mara 120 384 73 Los Fax 8: 030 705 7655 (HProject Owner: Mara 120 384 73 Los Fax 8: 030 70 32, 3045 59 - 104, 00 me: Ranni Hugas
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Page 99 of 120

Received by OCD: 3/22/2024 2:16:50 PM

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o Add'l Phone & provide Email address: Uni, Con, Bacteria (only) Sample Condition Cool Intect Observed Temp. °C Ves Yes Yes No Corrected Temp. °C		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
		Page 32 of 33

Page 100 of 120

Corrector	Shed By: Shed By: By: (Circle One)	Domogos, Cardnafs listally and di Bose for negligence and any effer Bose for negligence and any enter set of a nucle for indential or canao	36 37 96 94 96 9409		0	Alshad volume 720 384 736 0307017024 ume: East Loving cation: 32 304 5 ame: Ronn: 4	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Project Manager: A.e. Cole Address: 3/2/2 Martin D	Labora
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CHECKED BY: Turnaround Time: Standard A Bacteria (only (Initials) Thermometer ID arts OH Corrector Factor 05C 12-4-3 Ves Ves Please email changes to celey.keene@carclinallabsnm.com		is client for the		$\begin{array}{c c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	5	V: BTADI Keltun Benid 104 SPeas St Musland X Zp: 79701	MILL TO ANALYSIS	CHAIN-OF-CLISTONY AND
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Released to Imaging: 4/18/2024 3:51:42 PM

Received by OCD: 3/22/2024 2:16:50 PM

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APPENDIX E

NMOCD Notifications

Released to Imaging: 4/18/2024 3:51:42 PM

From:	Wells, Shelly, EMNRD
То:	Hadlie Green; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc:	Kelton Beaird; Aimee Cole; Tacoma Morrissey
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 10/16/2023
Date:	Wednesday, October 11, 2023 12:07:44 PM
Attachments:	image001.png image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 | Shelly. Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com>

Sent: Wednesday, October 11, 2023 11:58 AM

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

Cc: Kelton Beaird <KBeaird@btaoil.com>; Aimee Cole <acole@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 10/16/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of October 16, 2023.

- RGA #1 / nAPP2228347919
 - Sampling Date: 10/17/2023 @ 9:00 AM MST
- Ogden Substation Tank Overflow / nAPP2230983706
 - Sampling Date: 10/17-20/2023 @ 9:00 AM MST

- East Loving SWD #001 / nAPP2118277509
 - Sampling Date: 10/19-20/2023 @ 9:00 AM MST

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



APPENDIX F

Form C-141

Released to Imaging: 4/18/2024 3:51:42 PM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2118277509
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2118277509
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.309559 Longitude: -104.068115

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Loving SWD #001	Site Type: Injection Well Location
Date Release Discovered: 7/1/2021	API# (<i>if applicable</i>) Nearest well: East Loving SWD #001 API #30-015-26764

Unit Letter	Section	Township	Range	County
Α	15	23S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 30 BBL	Volume Recovered (bbls) 0 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
The release ran into	Flowline Leak between pump and wellhead. The release wa a low spot mixing with rainwater that was alre ince the area was soaked from previous rain.	

<i>ved by OCD: 3/22/2024 2:16:50 PM</i> n C-141 State of New Mexico		Page 10	
		Incident ID	nAPP2118277509
ge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
19.15.29.7(A) NMAC?	The entity volume was greater than 25 DDL	which the NMOCD Dules de	afina an a malar
Yes 🗌 No	The spill volume was greater than 25 BBL, v release.	which the NMOCD Rules de	efine as a major

Initial Response

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

 \square The source of the release has been stopped.

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

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

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

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

Extra Details:

On 7/2/2021, the release area was scraped and soil was stockpiled on location. A quick assessment of the scraped area indicates more impacted soil must be removed from the release area (copy attached).

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

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

Printed Name:	Bob Hall	Title: Environmental Manager
---------------	----------	------------------------------

Signature: Bliff			Date: 7/14/2021
email: bhall@btaoil.com Telephone: 432-682-3753		Telephone: 432-682-3753	
OCD Only			
Received by:	Ramona Marcu	I	Date: 7/14/2021

NAPP2118277509

East Loving SWD (McLoving) July 7, 2021 Loving,NM

Drone Photos:



Results:

SWD 1	316ppm	6in
SWD 2	27,616+ ppm	6in
SWD 3	27,616+ ppm	6in
SWD 4	27,616+ ppm	6in
STOCK PILE	16,796 ppm	composite



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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	36383
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	7/14/2021

PageHd@of 120 CONDITIONS

Action 36383

Received by OCD: 3/22/2024 2:16:50 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident IDnAPP2118277509District RPFacility IDApplication ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🖾 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗶 No

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

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

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

Page 3

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

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

Received by OCD: 3/22/2024 2:16:50 PM Form C-141 State of New Mexico			Page 112 of 120	
	Oil Conservation Division	Incident ID	nAPP2118277509	
Page 4		District RP		
		Facility ID		
		Application ID		
regulations all operators are required public health or the environment. The failed to adequately investigate and	Date: <u>1-18-2024</u>	orm corrective actions for rele eve the operator of liability shi, surface water, human health compliance with any other fea	eases which may endanger ould their operations have or the environment. In deral, state, or local laws	
OCD Only				
Received by:	Date: _			

Received by OCD: 3/22/2024 2:16:50 PM State of New Mexico

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Oil Conservation Division

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Incident ID	nAPP2118277509
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Manager Printed Name: Kelton Beaird Date: ____1-18-2024_ Signature: email: KBeaird@btaoil.com Telephone: 432-682-3753 OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

District I

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

QUESTIONS

Action 325966

Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	325966	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2118277509
Incident Name	NAPP2118277509 EAST LOVING SWD #001 @ 30-015-26764
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-26764] EAST LOVING SWD #001

Location of Release Source

Please answer all the questions in this group.	
Site Name	EAST LOVING SWD #001
Date Release Discovered	07/01/2021
Surface Owner	Private

Incident Details

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

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 Not answered. Cause: Equipment Failure | Flow Line - Injection | Produced Water | Released: 30 BBL | Produced Water Released (bbls) Details Recovered: 0 BBL | Lost: 30 BBL Is the concentration of chloride in the produced water >10,000 mg/l No Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Leak in injection line between pump and wellhead. The release was contained on the well Other, Specify, Unknown, and/or Fire, or any negative lost amounts) pad. It ran into a low spot mixing with rain water that was already standing.

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

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QUESTIONS, Page 2

Action 325966

QUESTIONS (continued)		
Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	325966	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ol eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required bases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com

Date: 03/22/2024

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

QUESTIONS, Page 3

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Action 325966

QUESTIONS (continued)	
Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325966
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 100 and 200 (ft.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)	
Any other fresh water well or spring	Between 500 and 1000 (ft.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Νο	

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 d	emonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertic	al extents of contamination been fully delineated	Yes
Was this release entirely of	contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 CI B)	22000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	31.4
GRO+DRO	(EPA SW-846 Method 8015M)	19.1
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	· · · · ·	
Per Subsection B of 19.15.29.11 which includes the anticipated tin	NMAC unless the site characterization report includes completer	
Per Subsection B of 19.15.29.11 which includes the anticipated tii On what estimated date w	NMAC unless the site characterization report includes completed melines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tii On what estimated date w On what date will (or did) t	NMAC unless the site characterization report includes completed melines for beginning and completing the remediation. ill the remediation commence	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 06/20/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) On what date will (or was)	NMAC unless the site characterization report includes completed melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 06/20/2024 09/18/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) i On what date will (or was) What is the estimated surf	NMAC unless the site characterization report includes completed melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur the remediation complete(d)	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 06/20/2024 09/18/2024 09/18/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) 1 On what date will (or was) What is the estimated surf What is the estimated volu	NMAC unless the site characterization report includes complete melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 06/20/2024 09/18/2024 09/18/2024 16000
Per Subsection B of 19.15.29.11 which includes the anticipated ti On what estimated date w On what date will (or did) On what date will (or was) What is the estimated surf What is the estimated volu What is the estimated surf	NMAC unless the site characterization report includes complete melines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed ume (in cubic yards) that will be reclaimed	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 06/20/2024 09/18/2024 09/18/2024 16000 2500

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

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

QUESTIONS, Page 4

Action 325966

 Operator:
 OGRID:

 104 S Pecos
 Action Number:

 Midland, TX 79701
 325966

 Action Type:
 [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 LEA LAND LANDFILL [fEEM0112342028] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Name: BTA ENSOLUM Title: Environmental Manager I hereby agree and sign off to the above statement Email: kbeaird@btaoil.com Date: 03/22/2024

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 325966

QUESTIONS (continued)		
Operator: BTA OIL PRODUCERS, LLC	OGRID: 260297	
104 S Pecos Midland, TX 79701	Action Number: 325966	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
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	Νο	

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QUESTIONS, Page 6

Action 325966

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QUESTIONS (continued) Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number Midland, TX 79701 325966 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) QUESTIONS Sampling Event Information

Last sampling notification (C-141N) recorded

{Unavailable.}

No

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

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

CONDITIONS

Action 325966

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325966
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By Condition Condition Date Remediation plan is approved with the following conditions. With your initial C-141 submission, you answered "No" to "Is the concentration of chloride in the 4/18/2024 scwells produced water >10,000 mg/l". Per 19.15.29.11A(5)c(i) NMAC, OCD requests the responsible party obtain a representative sample of the produced water and submit laboratory results with your next report submission which is due to OCD by June 17, 2024.