

August 28, 2023

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

Re: Remediation Work Plan King Tut Federal CTB Incident Number NAPP2319132381 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Remediation Work Plan (RWP)* to document assessment and soil sampling activities completed to date and propose additional remediation activities to address impacted soil at the King Tut Federal CTB (Site), resulting from a release of produced water into the surrounding pasture. The following *RWP* proposes excavation of impacted soil in the top 4 feet of non-oil and gas production areas.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (32.195°, -103.7194°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 21, 2023, internal corrosion of a flex line resulted in the release of approximately 158.54 barrels (bbls) of produced water into the surrounding pasture. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 70 bbls of produced water were recovered. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on June 21, 2023, and submitted a Release Notification Form C-141 (Form C-141) on July 10, 2023. The release was assigned Incident Number NAPP2319132381.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the closest permitted groundwater well data. The closest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NNOSE) boring C-04665 POD 1, located approximately 0.4 miles east of the Site. The boring was drilled in September 2022 to a total depth of 120 feet bgs, and no groundwater was encountered. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

COG Operating, LLC Remediation Work Plan King Tut Federal CTB

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 16,100 feet 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 greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 3, 2023, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven assessment soil samples (SS01 through SS07) were collected within and around the release extent at a depth of approximately 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing 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 visit 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 under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analyses of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 and SS02, collected within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria; however, chloride concentrations exceeded the reclamation requirement. Laboratory analytical results for assessment soil sample SS03, collected within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for soil samples SS04 through SS07, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement, and confirmed the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the assessment soil samples, additional delineation activities were warranted.

COG Operating, LLC Remediation Work Plan King Tut Federal CTB

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 28, 2023, delineation activities were conducted at the Site to assess the vertical extent of the release. Boreholes BH01 through BH07 were advanced via backhoe and hydrovac within the release extent. The delineation boreholes were advanced to depths ranging from 4 feet to 10 feet bgs. Soil from the boreholes was field screened at 1-foot intervals for VOCs and chloride using the same procedures described above. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from each borehole at depths ranging from 1-foot to 10 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The delineation soil sample locations are depicted on Figure 3.

Field screening results and/or laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH05 and BH07 indicated that chloride impacted soil is present in the top 4 feet of the off-pad release area. Laboratory analytical results for the delineation soil samples collected from borehole BH06 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. All delineation soil samples collected at depths greater than 4 feet bgs were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIAL ACTIONS

- Chloride impacted soil was identified in the top 4 feet of the off pad release area as indicated by field screening results and/or laboratory analytical results for assessment soil samples SS01 and SS02 and delineation samples from boreholes BH01 through BH05 and BH07. As a result, COG proposes excavation of chloride impacted soil from the top 4 feet. Excavation will proceed laterally until sidewall samples indicate chloride concentrations are compliant with the reclamation requirements. The Site Closure Criteria will be applied to floor samples collected at depths of 4 feet bgs or greater.
- Due to the estimated 5,765 square foot size of the excavation, COG requests a variance for frequency of excavation confirmation samples. COG proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 29 samples) to every 400 square feet (approximately 14 samples). Each 5-point composite floor sample will represent a 400 square foot area. Sidewall samples will be collected at a frequency of every 200 square feet.
- The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be analyzed for chloride only since the assessment and delineation samples did not contain BTEX or TPH exceeding the Site Closure Criteria or reclamation requirements.
- An estimated 1,110 cubic yards of impacted soil is anticipated to be excavated. The excavated soil will be transferred to a New Mexico approved disposal facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved BLM seed mixture.

COG will complete the excavation activities within 90 days of the date of approval of this *RWP* by the NMOCD. COG believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and is protective of human health, the environment, and groundwater. As such, COG respectfully requests approval of this *RWP* from NMOCD. NMOCD notifications are included in Appendix E and the Form C-141 is included in Appendix F.

COG Operating, LLC Remediation Work Plan King Tut Federal CTB

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely, Ensolum, LLC

Caris Licen

Hadlie Green Project Geologist

Daniel R Moir, PG Senior Managing Geologist

cc: Jacob Laird, COG Operating, LLC Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment Soil Sample Locations
- Figure 3 Delineation Soil Sample 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

Received by OCD: 9/7/2023 8:17:39 AM

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Released to Imaging: 11/28/2023 11:06:37 AM



Lea County, New Mexico



Environmental, Engineering and Hydrogeologic Consultants

King Tut Federal CTB Incident Number: NAPP2319132381 Unit D, Sec 30, T24S, R32E Lea County, New Mexico

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TABLES

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS King Tut Federal CTB COG Operating, LLC Lea County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000				
	Assessment Soil Samples													
SS01*														
SS02*	07/03/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	15,300				
SS03*	07/03/2023	0.5	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	412				
SS04*	07/03/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	88.7				
SS05*	07/03/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	44.9				
SS06*	07/03/2023	0.5	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	<50.3	108				
SS07*	07/03/2023	0.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	49.1				
				Delii	neation Soil Sam	ples								
BH01*	07/28/2023	2	<0.00198	<0.00397	<50.4	<50.4	<50.4	<50.4	<50.4	9,430				
BH01A	07/28/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	369				
BH02*	07/28/2023	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	13,600				
BH02A	07/28/2023	6	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	369				
BH03*	07/28/2023	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	9,050				
BH03A	07/28/2023	7	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	589				
BH04	07/28/2023	5	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	<49.6	3,690				
BH04A	07/28/2023	9	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	6,820				

ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Windward Fed 2H COG Operating, LLC Lea County, New Mexico													
Sample Designation														
NMOCD Table I	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000				
BH05*	07/28/2023	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	11,400				
BH05A	07/28/2023	7	<0.00200	<0.00400	<50.4	<50.4	<50.4	<50.4	<50.4	342				
BH06*	07/28/2023	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	434				
BH06A*	07/28/2023	3	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	143				
BH07 07/28/2023 5 <0.00200 <0.00401 <50.2 <50.2 <50.2 <50.2 <50.2 <50.2 13,														
BH07A	07/28/2023	10	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	5,890				

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.

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APPENDIX A

Referenced Well Records



PAGE 1 OF 2

WELL TAG ID NO.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. (C-04665 PO	한번 것 같은 모이 안가?	.)	1	WELL TAG ID NO.	1		OSE FILE NO(C-04665	S).		
OCATI	WELL OWNER							PHONE (OPTI 575-988-204			
WELL L	WELL OWNER 2208 W MA		G ADDRESS					CITY ARTESIA		STATE NM 88210	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION	LA	TITUDE	GREES 32	minutes 11	second 42.72	N	2000 C 1000 C	REQUIRED: ONE TENT	TH OF A SECOND	
VER	(FROM GPS) LO	NGITUDE	-103	42	45.30) W	* DATUM REG	QUIRED: WGS 84		
1. GEN	DESCRIPTION KING TUT		NG WELL LOCATION TO AL 001H	STREET ADDRE	SS AND COMMON	LANDMAR	RKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO. WD-11	184	NAME OF LICENSED		L SOUTHERI	LAND			NAME OF WELL DRI WEST TEXAS	LLING COMPANY WATER WELL SE	RVICE
	DRILLING ST 9/15/20		DRILLING ENDED 09/15/2022	DEPTH OF COM	PLETED WELL (FT 120	Г) I	BORE HO	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT)	
z	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	W (UNCON	FINED)		STATIC WATER LEV	EL IN COMPLETED WE N/A	ELL (FT)
TIOI	DRILLING FLU	UID:	AIR	MUD	ADDITIV	ES – SPECII	ΥY:				
ORMA	DRILLING ME	THOD:	F ROTARY	HAMMER	CABLE T	'00L [OTHE	ER – SPECIFY:			
2. DRILLING & CASING INFORMATION	DEPTH (1 FROM	feet bgl) TO	BORE HOLE DIAM (inches)	(include ea	IATERIAL AND GRADE the casing string, ections of screen)	and	CON	ASING NECTION FYPE oling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
NG &				NO CA	SING IN HOLE	3					
RILLI											
2. DI											
			_						OSE DIT SET	26 2022 MG:2	8
	DEPTH (feet bgl)	BORE HOLE		T ANNULAR SE				AMOUNT	METHO	
RIAL	FROM	ТО	DIAM. (inches)	GRAV	EL PACK SIZE	-RANGE I	3Y INTI	ERVAL	(cubic feet)	PLACEN	AENT
MATE					1	N/A					
ANNULAR MATERIAL											
3. ANI											
	E NO.		6105		POD NO	D. 1			NO. 73287		0/19)

30

31E

LOCATION

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	DEPTH (feet bgl) TO	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF MA ER-BEARING C	AVITIES O	R FRAC	TURE ZONES	5	WAT BEAR (YES)	ING?	ESTIMATED YIELD FOR WATER- BEARING
				(_			ZONES (gpm)
	0	1				HIE PAD				Y	✓ N	
	1	3				TOPSOIL				Y	✓ N	
	3	25			CAL	ICHIE				Y	✓ N	
	25	27			RED	SAND				Y	• N	
	27	120			RED SAN	DY CLAY				Y	✔ N	
E										Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
FOG										Y	N	
CIC										Y	N	
LOC										Y	Ν	
GEO										Y	Ν	
RO										Y	Ν	
UXB										Y	Ν	
4										Y	N	
1										Y	N	
1										Y	N	
3										Y	Ν	
2										Y	N	
										Y	N	
										Y	N	
			_	OF WATER-BEARIN		DBV U(NE		TOTAL		AATED (gpm):	0.00
	D PUM	р Ц.	AIR LIFT	BAILER C	OTHER – SPECIF	Y;DK1 HC						
NOIS	WELL TES	T TEST	T RESULTS - ATT RT TIME, END TI	ACH A COPY OF DA ME, AND A TABLE S	ATA COLLECTER SHOWING DISC	D DURING HARGE AN	WELL 1 D DRAV	ESTING, INC WDOWN OVI	CLUDING ER THE '	G DISC TESTIN	HARGE	METHOD, DD.
TEST; RIG SUPERVISI	MISCELLA	NEOUS IN	FORMATION:					OSE	DITS	EP 26	2022	»3:28
ST;							01011.01		OTDI		THE T	INTERPORT
5. TE				RVISOR(S) THAT PR	OVIDED ONSIT	E SUPERVI	SION O	F WELL CON	STRUCI	TION O	THER II	HAN LICENSEE:
4.	RUSSELL	SOUTHE	RLAND									
6. SIGNATURE	RECORD C	F THE AB	OVE DESCRIBED	AAT TO THE BEST WELL. I ALSO CER WITH THE PERMIT	TIFY THAT THI	E WELL TA	G, IF RE	EQUIRED, HA	S BEEN	INSTA	LLED A	ND THAT THIS
SIGN.				RUSSE	ELL SOUTHER	LAND				09/1	5/2022	
•		SIGNA	TURE OF DRILLI	ER / PRINT SIGNE	E NAME						DATE	
FO	R OSE INTER	NAL USE						WR-20 WF	LL RECO	ORD &	LOG (V	ersion 04/30/2019
	E NO. (-	DYLOL	5		POD NO.	١		TRN NO.	73	28-		
	CATION	ILS.	32E. 30	112			WELL	TAG ID NO.				PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

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STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER

Trn Nbr: 732879 File Nbr: C 04665 Well File Nbr: C 04665

Oct. 04, 2022

KALEI JENNINGS ENSOLUM 601 N MARIENFIELD ST SUITE 400 MIDLAND, TX 79701

Greetings:

The above numbered permit was issued in your name on 08/26/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/15/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/26/2023.

If you have any questions, please feel free to contact us.

Sincerely,

alement

Vanessa Clements (575)622-6521

drywell

USGS 321005103402301 245.32E.33.42241

Lea County, New Mexico Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83 Land-surface elevation 3,499.00 feet above NGVD29 The depth of the well is 367 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats							
	Output formats						

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Date \$	Time \$	 ❷ Water- level date-time accuracy 	Parameter \$ code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	Ø ≎ Status	Method of \$ measurement	 Measuring \$ agency 	Source of the so	❷ Water- level approval status
2013						•					
2013-01-17	16:30 UTC	m	62610		3209.31	NGVD29	1	S	USGS	S	A
2013-01-17	16:30 UTC	m	62611		3211.03	NAVD88	1	S	USGS	S	А
Released to Imag	ing: ¹ f1/28/2023	11:06:37 AM m	72019	289.69			1	S	USGS	S	A



APPENDIX B

Photographic Log





APPENDIX C

Lithologic Soil Sampling Logs

	_							Sample Name: BH01	Date: 7/28/2023
				C	ΟΙ		Л	Site Name: King Tut Federal CTB	
				3				Incident Number: NAPP23191323	81
								Job Number: 03D2024204	
	L	ITHOLO	DGIC	: / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Vac truck
Coordin	nates: 32.1	.95110,-1	.03.71	19486				Hole Diameter:	Total Depth: 4'
					h HACH Chlo vater. 40% co			D for chloride and vapor, respective ed.	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	scriptions
Damp		0.0	N					Sand: brown, medim to fine no stain, no odor	
Damp	12,202	0.0	N	BH01B	2	2	SP-SM	Sand: brown, reddish brown grain, poorly graded, no sta	n, medium to fine in, no odor
Damp	9,676	0.0	Ν		-	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	
Damp	156	0.0	Ν	BH01D	4 _	- 4 -	SP-SM	Sand: orange brown, mediu graded, no stain, no odor TD 4 feet bgs	m to fine grain, poorly
					-	- 5 -			
					-	6			
					-	7			
					-	- - 8 -			
					-	- - 9 -			
					-	10			
					-	- - 11 -			
					-	- 12			

								Sample Name: BH02	Date: 7/28/2023
				C				Site Name: Windward Fed 2H/King	
				3	ΟΙ			Incident Number: NAPP231913238	
								Job Number: 03D2024204	
	L	ITHOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Vac truck
Coordir	nates: 32.1	.95103,-1	03.71	19553				Hole Diameter:	Total Depth: 4'
Comme	ents: Field	screenin	g con	ducted with	h HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ly. Chloride test performed
with 1:4	4 dilution 1	factor of	soil to	o distilled w	vater. 40% co	orrection fac	tor includ	ed.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Damp	11,110	0.0	Ζ		- - - -		SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	16,430	0.0	N	BH02B	2	2	SP-SM	Sand: brown, reddish brown grain, poorly graded, no stai	n, medium to fine n, no odor
Damp	16,430	0.0	N		-	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	6,748	0.0	N		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	1293	0.0	N		-	- 5 -	SP-SM	SAA (same as above)	
Damp	229	0.0	N	BH02F	6	6	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor TD at 6 feet bgs	m to fine grain, poorly
					-	- - 7 -			
						8			
						- 9			
					-	10			
					-	- 11			
					-	- 12			

Ī								Sample Name: BH03	Date: 7/28/2023
				C	OL			Site Name: Windward Fed 2H/King	Tut Fed CTB
			N	3				Incident Number: NAPP231913238	31
								Job Number: 03D2024204	
	L	ITHOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Vac truck
Coordir	nates: 32.1	.95048,-1	03.71	L9483				Hole Diameter:	Total Depth: 4'
Comme	ents: Field	screening	g con	ducted with	n HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ly. Chloride test performed
with 1:4	4 dilution f	factor of s	soil to	o distilled w	vater. 40% co	prrection fac	tor includ	ed. ND - Non Detect	
Moisture Content	Notice Chloride Content Content Content Chloride Content Chloride Chloride Chloride Debth (tp ps) Debth (tp ps) O Content O Content							Lithologic Des	scriptions
					L	0			
					_	-			
Damp	13,104	0.0	Ν	BH03A	1	1	SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	9,200	0.0	Ν		-	2	SP-SM	Sand: brown, reddish browr grain, poorly graded, no stai	
Damp	6,220	0.0	N			3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	im to fine grain, poorly
Damp	806	0.0	N		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	1,030	0.0	N		-	5 5	SP-SM	SAA (same as above)	
Damp	1,204	0.0	N		-	6	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	im to fine grain, poorly
Damp	397	0.0	Ν		-	7	SP-SM	Sand: reddish brown, medin graded with silt, no stain, no	
Damp	ND	0.0	N	внозн	8_	- 8	SP-SM	Sand: brown, medim to fine with silt/clay, slightly cohesi TD at 8 feet bgs	grain, poorly graded ve, no stain, no odor
					-	9			
					-	10			
						11			
					-	12			

								Sample Name: BH04	Date: 7/28/2023
		C		C	OL		R A	Site Name: Windward Fed 2H/King	Tut Fed CTB
			N	3				Incident Number: NAPP231913238	31
								Job Number: 03D2024204	
	L	ITHOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Vac truck
Coordir	nates: 32.1	.94993,-1	03.71	.9471				Hole Diameter:	Total Depth: 4'
Comme	ents: Field	screening	g con	ducted with	HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ly. Chloride test performed
with 1:4	4 dilution 1	factor of	soil to	o distilled w	vater. 40% co	prrection fac	tor includ	ed. ND - Non Detect	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
					L	0			
Damp	3,640	0.0	N		• - - - -	- - - -	SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	5,040	0.0	Ν		-	2	SP-SM	Sand: brown, reddish brown grain, poorly graded, no stai	i, medium to fine n, no odor
Damp	3,516	0.0	N		-	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	3,516	0.0	Ν		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	5,728	0.0	N	BH04E	5	5	SP-SM	SAA (same as above)	
Damp	1,125	0.0	N			6	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	1,993	0.0	Ν		-	7	SP-SM	Sand: reddish brown, medin graded with silt, no stain, no	
Damp	3,920	0.0	N		-	8	SP-SM	Sand: brown, medim to fine with silt/clay, slightly cohesi	
Damp	9,548	0.0	N	BH04I	9	9	SP-SM	SAA, some white caliche TD (refusal) at 9 feet bgs	
					-	10			
					-	11			
						 12			

								Sample Name: BH05	Date: 7/28/2023
		C		C	Ο		R A	Site Name: Windward Fed 2H/King	g Tut Fed CTB
			N	3				Incident Number: NAPP231913238	31
								Job Number: 03D2024204	
	L	ITHOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Backhoe
Coordir	nates: 32.1			=				Hole Diameter:	Total Depth: 4'
Comme	ents: Field	screening	g con	ducted with	n HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ely. Chloride test performed
with 1:4	4 dilution f	factor of	soil to	o distilled w	vater. 40% co	orrection fac	tor includ	ed. ND - Non Detect	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Damp	13,322	0.0	N		للـ - -		SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	14,604	0.0	N	BH05B	2	2	SP-SM	Sand: brown, reddish browr grain, poorly graded, no sta	
Damp	6,770	0.0	N		-	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	im to fine grain, poorly
Damp	6,210	0.0	N		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	3,808	0.0	N		-	5	SP-SM	SAA (same as above)	
Damp	2,122	0.0	N		-	6 6	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	ım to fine grain, poorly
Damp	229	0.0	N	BH05G	7	7	SP-SM	Sand: reddish brown, medir graded with silt, no stain, no	n to fine grain, poorly o odor
Damp	1,724	0.0	N			8	SP-SM	Sand/Caliche: light tan, pink poorly graded with silt/clay, TD at 8 feet bgs	
					-	- 9			
					-	10			
					-	- 11			
						- 12			

Ĩ								Sample Name: BH06	Date: 7/28/2023
				C	ΟΙ			Site Name: Windward Fed 2H/King	
				3				Incident Number: NAPP231913238	31
								Job Number: 03D2024204	
	L	ITHOLO	OGIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Backhoe
Coordir	nates: 32.1	.94894,-1	03.71	19385				Hole Diameter:	Total Depth: 4'
					n HACH Chlo	ride Test Str	ips and PI	D for chloride and vapor, respective	ely. Chloride test performed
with 1:4	4 dilution 1	factor of	soil to	o distilled w	vater. 40% co	orrection fac	tor includ	ed. ND - Non Detect	
Moisture Content	Moisture Content Content (ppm)							Lithologic Des	scriptions
						0 			
Damp	1,114	0.0	Ν	BH06A	1	1	SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	739	0.0	Ν		-	2	SP-SM	Sand: brown, reddish browr grain, poorly graded, no stai	
Damp	ND	0.0	Ν	BH06C	3	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	im to fine grain, poorly
Damp	ND	0.0	N		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor TD at 4 feet bgs	m to fine grain, poorly
						5			
					-	6			
					-	- - 7			
					-	- 8			
					-	9			
					-	10			
					-	- - 11 -			
					-	12			

								Sample Name: BH07	Date: 7/28/2023
				C	OL		R.A	Site Name: Windward Fed 2H/King	Tut Fed CTB
				3		. U		Incident Number: NAPP231913238	31
								Job Number: 03D2024204	
	L	ITHOLO	OGIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Backhoe
Coordir	nates: 32.1	.94804,-1	03.71	L9437				Hole Diameter:	Total Depth: 4'
								D for chloride and vapor, respective ed. ND - Non Detect	ly. Chloride test performed
				s distincu t					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
					Ţ	0			
Damp	13,440	0.0	N		• - - - -	1 1	SP-SM	Sand: brown, medim to fine no stain, no odor	grain, poorly graded,
Damp	13,440	0.0	Ν		-	2	SP-SM	Sand: brown, reddish brown grain, poorly graded, no stai	
Damp	10,617	0.0	N		-	3	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	9,240	0.0	N		-	4	SP-SM	Sand: orange brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	16,486	0.0	Ν	BH07E	5_	5	SP-SM	SAA (same as above)	
Damp	16,486	0.0	N		-	6	SP-SM	Sand: reddish brown, mediu graded, no stain, no odor	m to fine grain, poorly
Damp	13,440	0.0	Ν		-	7	SP-SM	Sand: reddish brown, medin graded with silt, no stain, no	
Damp	16,486	0.0	N			8	SP-SM	Sand: brown, medim to fine with silt/clay, slightly cohesi	
Damp	7,285	0.0	Ν		•	9	SP-SM	SAA, some white caliche	
Damp	7,884	0.0	N	BH07J	10	10	SP-SM	SAA TD (refusal) at 10 feet bgs	
						11			
						12			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/21/2023 1:09:28 PM Revision 1

JOB DESCRIPTION

Windward Fed 2H & King Tut Fed CTB SDG NUMBER 03D2024204 32.1943,-103.7194

JOB NUMBER

890-4894-1

See nage two for job notes and contact information

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220





Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

AMER

Generated 7/21/2023 1:09:28 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Definitions/Glossary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Qualifiers

Qualifiers		 3
GC VOA Qualifier	Qualifier Description	4
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
*1	LCS/LCSD RPD exceeds control limits.	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VC	DA	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
F1	MS and/or MSD recovery exceeds control limits.	8
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	0
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
A 1. 1	 · · · · · · · · · · · · · · · · · ·	

bbreviation	These commonly used abbreviations may or may not be present in this report.	
	Listed under the "D" column to designate that the result is reported on a dry weight basis	
R	Percent Recovery	
FL	Contains Free Liquid	
FU	Colony Forming Unit	
NF	Contains No Free Liquid	
ER	Duplicate Error Ratio (normalized absolute difference)	
il Fac	Dilution Factor	
L	Detection Limit (DoD/DOE)	
L, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
LC	Decision Level Concentration (Radiochemistry)	
DL	Estimated Detection Limit (Dioxin)	
OD	Limit of Detection (DoD/DOE)	
OQ	Limit of Quantitation (DoD/DOE)	
ICL	EPA recommended "Maximum Contaminant Level"	
IDA	Minimum Detectable Activity (Radiochemistry)	
IDC	Minimum Detectable Concentration (Radiochemistry)	
IDL	Method Detection Limit	
IL	Minimum Level (Dioxin)	
IPN	Most Probable Number	
IQL	Method Quantitation Limit	
IC	Not Calculated	
D	Not Detected at the reporting limit (or MDL or EDL if shown)	
EG	Negative / Absent	
OS	Positive / Present	
QL	Practical Quantitation Limit	
RES	Presumptive	
)C	Quality Control	
ER	Relative Error Ratio (Radiochemistry)	
L	Reporting Limit or Requested Limit (Radiochemistry)	
PD	Relative Percent Difference, a measure of the relative difference between two points	
EF	Toxicity Equivalent Factor (Dioxin)	
EQ	Toxicity Equivalent Quotient (Dioxin)	
NTC	Too Numerous To Count	

Job ID: 890-4894-1

SDG: 03D2024204 32.1943,-103.7194

Case Narrative

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Job ID: 890-4894-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4894-1

REVISION

The report being provided is a revision of the original report sent on 7/18/2023. The report (revision 1) is being revised due to Per client email, added chlorides to job.

Receipt

The samples were received on 7/3/2023 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4894-1), SS02 (890-4894-2) and SS03 (890-4894-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-57090/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-57060 and 880-57090 and analytical batch 880-57044 recovered outside control limits for the following analytes: Toluene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57044 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57044/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57168 and analytical batch 880-57224 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4901-A-7-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS03 (890-4894-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS); therefore, matrix spike recoveries are unavailable for preparation batch 880-57168 and analytical batch 880-57224. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-57168 and analytical batch 880-57224 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

4

Case Narrative

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Job ID: 890-4894-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Ensolum	
Project/Site: Windward Fed 2H & King Tut Fed CTB	

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Client Sample ID: SS01 Date Collected: 07/03/23 08:17

Lab Sample ID: 890-4894-1

Matrix: Solid

5

Date Received: 07/03/23 10:15 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		07/06/23 12:35	07/07/23 07:30	
Toluene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 12:35	07/07/23 07:30	
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 12:35	07/07/23 07:30	
m-Xylene & p-Xylene	<0.00403	U *+ *1	0.00403	mg/Kg		07/06/23 12:35	07/07/23 07:30	
o-Xylene	<0.00202	U *+ *1	0.00202	mg/Kg		07/06/23 12:35	07/07/23 07:30	
Xylenes, Total	<0.00403	U *+ *1	0.00403	mg/Kg		07/06/23 12:35	07/07/23 07:30	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130			07/06/23 12:35	07/07/23 07:30	
1,4-Difluorobenzene (Surr)	112		70 - 130			07/06/23 12:35	07/07/23 07:30	
Method: TAL SOP Total BTEX								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg	_		07/07/23 10:20	
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)					
				l lucit	P	Drenered	Analyzed	Dil Fa
Analyte		Qualifier	RL	Unit	D	Prepared		
Analyte Total TPH	83.0	Qualifier		mg/Kg		Prepared	07/10/23 12:23	
Total TPH Method: SW846 8015B NM - C	83.0 Diesel Range	e Organics	50.2 5 (DRO) (GC)	mg/Kg			07/10/23 12:23	
Total TPH Method: SW846 8015B NM - C Analyte	83.0 Diesel Range Result	e Organics Qualifier	50.2 5 (DRO) (GC) RL	mg/Kg Unit	D	Prepared	07/10/23 12:23 Analyzed	
Total TPH Method: SW846 8015B NM - C Analyte Gasoline Range Organics (GRO)-C6-C10	83.0 Diesel Range	e Organics Qualifier	50.2 5 (DRO) (GC) RL 50.2	mg/Kg		Prepared	07/10/23 12:23	
Total TPH Method: SW846 8015B NM - C Analyte Gasoline Range Organics	83.0 Diesel Range Result	e Organics Qualifier U	50.2 5 (DRO) (GC) RL	mg/Kg Unit		Prepared 07/07/23 12:45	07/10/23 12:23 Analyzed	
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	83.0 Diesel Range Result <50.2	e Organics Qualifier U *1	50.2 5 (DRO) (GC) RL 50.2	mg/Kg Unit mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - C Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	83.0 Diesel Range Result <50.2 83.0	e Organics Qualifier U *1	50.2 50.2 50.2 50.2 50.2	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	83.0 Diesel Range Result <50.2 83.0 <50.2	e Organics Qualifier U *1 U	50.2 50.2 50.2 50.2 50.2 50.2	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45	Analyzed 07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0	e Organics Qualifier U *1 U Qualifier	50.2 50.2 50.2 50.2 50.2 50.2 50.2 50.2 50.2	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0 %Recovery	e Organics Qualifier U *1 U Qualifier	50.2 5 (DRO) (GC) RL 50.2 50.2 50.2 50.2 50.2 50.2 Limits	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0 %Recovery 128 110	e Organics Qualifier U *1 U Qualifier	50.2 50.2	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 Analyzed 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane p-Terphenyl	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0 %Recovery 128 110	e Organics Qualifier U *1 U Qualifier	50.2 50.2	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 Analyzed 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane p-Terphenyl Method: EPA 300.0 - Anions,	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0 %Recovery 128 110	e Organics Qualifier U *1 U Qualifier	50.2 5 (DRO) (GC) RL 50.2 50.2 50.2 50.2 50.2 70.130 70.130 70.130 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared 07/07/23 12:45 07/07/23 12:45	07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44	Dil Fa
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dill Range Organics (Over C28-C36) Total TPH Surrogate I-Chlorooctane D-Terphenyl Method: EPA 300.0 - Anions, I Analyte	83.0 Diesel Range Result <50.2 83.0 <50.2 83.0 %Recovery 128 110 Ion Chromat Result	e Organics Qualifier U *1 U Qualifier	50.2 5 (DRO) (GC) RL 50.2	mg/Kg Unit mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45 Prepared 07/07/23 12:45 07/07/23 12:45 07/07/23 12:45	Analyzed 07/10/23 12:23 Analyzed 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44 07/09/23 15:44	Dil Fa

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 07/06/23 12:35 07/07/23 07:51 Toluene <0.00200 U*+ 0.00200 mg/Kg 07/06/23 12:35 07/07/23 07:51 Ethylbenzene <0.00200 U*+ 0.00200 mg/Kg 07/06/23 12:35 07/07/23 07:51 m-Xylene & p-Xylene <0.00401 U*+*1 0.00401 07/06/23 12:35 07/07/23 07:51 mg/Kg o-Xylene <0.00200 U *+ *1 0.00200 mg/Kg 07/06/23 12:35 07/07/23 07:51 Xylenes, Total <0.00401 U *+ *1 0.00401 mg/Kg 07/06/23 12:35 07/07/23 07:51

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Dil Fac

1

1

1

1

1

1

Released to Imaging: 11/28/2023 11:06:37 AM

Sample Depth: 0.5

7/21/2023 (Rev. 1)

Client: Ensolum

Client Sample Results

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Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

lient Sample ID: SS02 ate Collected: 07/03/23 08:18 ate Received: 07/03/23 10:15 ample Depth: 0.5						Lab Samp	le ID: 890-4 Matrix	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Bromofluorobenzene (Surr)	109		70 - 130				07/07/23 07:51	
1,4-Difluorobenzene (Surr)	116		70 - 130			07/06/23 12:35	07/07/23 07:51	
Method: TAL SOP Total BTEX								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/07/23 10:20	
lethod: SW846 8015 NM - Die			DRO) (GC)					
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
otal TPH	<50.0	U	50.0	mg/Kg			07/10/23 12:23	
lethod: SW846 8015B NM - D	• • •	• •						
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
asoline Range Organics GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:45	07/09/23 16:06	
iesel Range Organics (Over 10-C28)	<50.0	U *1	50.0	mg/Kg		07/07/23 12:45	07/09/23 16:06	
Il Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:45	07/09/23 16:06	
otal TPH	<50.0	U	50.0	mg/Kg		07/07/23 12:45	07/09/23 16:06	
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
Chlorooctane	110		70 - 130			07/07/23 12:45	07/09/23 16:06	
Terphenyl	95		70 - 130			07/07/23 12:45	07/09/23 16:06	
lethod: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
hloride	15300		99.4	mg/Kg			07/21/23 03:32	
						Lab Samp	le ID: 890-4	894
ient Sample ID: SS03 ate Collected: 07/03/23 08:19 ate Received: 07/03/23 10:15 ample Depth: 0.5						-	Matrix	
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 imple Depth: 0.5 lethod: SW846 8021B - Volat	-			11-14		Duran and		:: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte	Result	Qualifier		Unit	D	Prepared	Analyzed	:: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene	Result <0.00201	Qualifier	RL 0.00201	mg/Kg	<u>D</u>	07/06/23 12:35	Analyzed 07/07/23 08:12	: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene oluene	Result <0.00201 <0.00201	Qualifier U U *+	RL 0.00201 0.00201	mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35	Analyzed 07/07/23 08:12 07/07/23 08:12	:: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene oluene thylbenzene	Result <0.00201	Qualifier U U *+ U *+	RL 0.00201 0.00201 0.00201	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35 07/06/23 12:35	Analyzed 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12	:: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene oluene hylbenzene -Xylene & p-Xylene	Result <0.00201	Qualifier U U *+ U *+ U *+	RL 0.00201 0.00201 0.00201 0.00201 0.00402	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35	Analyzed 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12	: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene bluene hylbenzene -Xylene & p-Xylene Xylene	Result <0.00201	Qualifier U U *+ U *+ U *+ U *+ *1 U *+ *1	RL 0.00201 0.00201 0.00201	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35	Analyzed 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12	:: Sol
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5 lethod: SW846 8021B - Volat nalyte enzene bluene thylbenzene -Xylene & p-Xylene Xylene ylenes, Total	Result <0.00201	Qualifier U *+ U *+ U *+ *1 U *+ *1 U *+ *1 U *+ *1	RL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201 0.00402	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35	Analyzed 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12	Dil F
te Collected: 07/03/23 08:19 te Received: 07/03/23 10:15 mple Depth: 0.5	Result <0.00201	Qualifier U *+ U *+ U *+ *1 U *+ *1 U *+ *1 U *+ *1	RL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 07/06/23 12:35 Prepared	Analyzed 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12 07/07/23 08:12	:: Sol

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			07/07/23 10:20	1

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7/21/2023 (Rev. 1)

Project/Site: Windward Fed 2H & King Tut Fed CTB

Matrix: Solid

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Lab Sample ID: 890-4894-3

Client Sample ID: SS03 Date Collected: 07/03/23 08:19

Client: Ensolum

Date Conected: 07/03/23 08:19 Date Received: 07/03/23 10:15 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.2	U	50.2	mg/Kg			07/10/23 12:23	1	
Method: SW846 8015B NM - D	iesel Range	• Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/07/23 12:45	07/09/23 16:27	1	8
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2	mg/Kg		07/07/23 12:45	07/09/23 16:27	1	g
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/07/23 12:45	07/09/23 16:27	1	
Total TPH	<50.2	U	50.2	mg/Kg		07/07/23 12:45	07/09/23 16:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	132	S1+	70 - 130			07/07/23 12:45	07/09/23 16:27	1	
o-Terphenyl	114		70 - 130			07/07/23 12:45	07/09/23 16:27	1	
Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	412		5.04	mg/Kg			07/21/23 03:37	1	

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Surrogate Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

d 2H & King Tut Fed CTB

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Perce	ent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-30380-A-1-K MS	Matrix Spike	114	109	
880-30380-A-1-L MSD	Matrix Spike Duplicate	106	105	
890-4894-1	SS01	110	112	
890-4894-2	SS02	109	116	
890-4894-3	SS03	110	110	
LCS 880-57090/1-A	Lab Control Sample	103	105	
LCSD 880-57090/2-A	Lab Control Sample Dup	143 S1+	108	
MB 880-57060/5-A	Method Blank	84	104	
MB 880-57090/5-A	Method Blank	87	102	

Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

			Percen	t Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)	
890-4894-1	SS01	128	110	
890-4894-2	SS02	110	95	
890-4894-3	SS03	132 S1+	114	
890-4901-A-7-D MS	Matrix Spike	107	93	
890-4901-A-7-E MSD	Matrix Spike Duplicate	136 S1+	109	
LCS 880-57168/2-A	Lab Control Sample	87	80	
LCSD 880-57168/3-A	Lab Control Sample Dup	108	98	
MB 880-57168/1-A	Method Blank	151 S1+	131 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-57060/5-A

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID. MD 000-57 Matrix: Solid	000/3-A						Bron Type: T	
Matrix: Solid							Prep Type: To	
Analysis Batch: 57044	МВ	мв					Prep Batch	: 57060
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg	_ <u>-</u>	07/06/23 09:37	07/06/23 14:11	
Toluene	< 0.00200		0.00200	mg/Kg		07/06/23 09:37	07/06/23 14:11	1
	<0.00200		0.00200	00			07/06/23 14:11	1
Ethylbenzene				mg/Kg		07/06/23 09:37		
m-Xylene & p-Xylene	<0.00400		0.00400	mg/Kg		07/06/23 09:37	07/06/23 14:11	1
o-Xylene	<0.00200		0.00200	mg/Kg		07/06/23 09:37	07/06/23 14:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/06/23 09:37	07/06/23 14:11	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			07/06/23 09:37	07/06/23 14:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130			07/06/23 09:37	07/06/23 14:11	1
_ Lab Sample ID: MB 880-57	090/5-4					Client Samn	le ID: Method	d Blank
Matrix: Solid							Prep Type: T	
Analysis Batch: 57044							Prep Batch	
······,·······························	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/06/23 12:35	07/07/23 00:55	1
	MR	MB						
Xylenes, Total		U MB	0.00400	mg/Kg		07/06/23 12:35	07/07/23 00:55	

	MB MB	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCS 880-57090/1-A Matrix: Solid Analysis Batch: 57044

Analysis Baton. or off								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	
Toluene	0.100	0.1212		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2271		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-57090/2-A			C	Client Sa	mple	ID: Lat	o Control	Sample	e Dup
Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 57044							Prep E	Batch:	57090
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1069		mg/Kg		107	70 - 130	4	35

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Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Client Sample ID: Method Blank

5 7

Prepared	Analyzed	Dil Fac
07/06/23 12:35	07/07/23 00:55	1
07/06/23 12:35	07/07/23 00:55	1

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 57090

Released to Imaging: 11/28/2023 11:06:37 AM

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-57090/2-A Matrix: Solid Analysis Batch: 57044			C	Client Sa	mple	ID: Lat	Control Prep Ty Prep E		al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1356	*+	mg/Kg		136	70 - 130	11	35
Ethylbenzene	0.100	0.1434	*+	mg/Kg		143	70 - 130	28	35
m-Xylene & p-Xylene	0.200	0.3302	*+ *1	mg/Kg		165	70 - 130	37	35
o-Xylene	0.100	0.1605	*+ *1	mg/Kg		161	70 - 130	37	35
I CSD I CSD									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-30380-A-1-K MS Matrix: Solid Analysis Batch: 57044

Analysis Batch: 57044									Prep Batch: 57090
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00202	U	0.0994	0.1155		mg/Kg		116	70 - 130
Toluene	<0.00202	U *+	0.0994	0.1236		mg/Kg		124	70 - 130
Ethylbenzene	<0.00202	U *+	0.0994	0.1098		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00403	U *+ *1	0.199	0.2262		mg/Kg		114	70 - 130
o-Xylene	<0.00202	U *+ *1	0.0994	0.1088		mg/Kg		109	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-30380-A-1-L MSD Matrix: Solid Analysis Batch: 57044

1,4-Difluorobenzene (Surr)

Analysis Baton. 01044									1100 -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.1053		mg/Kg		106	70 - 130	9	35
Toluene	<0.00202	U *+	0.0990	0.1130		mg/Kg		114	70 - 130	9	35
Ethylbenzene	<0.00202	U *+	0.0990	0.09874		mg/Kg		100	70 - 130	11	35
m-Xylene & p-Xylene	< 0.00403	U *+ *1	0.198	0.2028		mg/Kg		102	70 - 130	11	35
o-Xylene	<0.00202	U *+ *1	0.0990	0.09763		mg/Kg		99	70 - 130	11	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

105

Lab Sample ID: MB 880-57168/1-A Matrix: Solid Analysis Batch: 57224	L						le ID: Methoo Prep Type: To Prep Batch:	otal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/ł	(g	07/07/23 12:45	07/09/23 08:19	1

70 - 130

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Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 57090

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method: 8015B NM - Diesel Range Organie	ics (DRO) (GC) (Continued)
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Lab Sample ID: MB 880-57	168/1-A								Clie		ole ID: Me		
Matrix: Solid											Prep Typ	e: To	otal/NA
Analysis Batch: 57224											Prep Ba	atch:	57168
			MB										
Analyte			Qualifier	RL			nit	D		repared	Analyze		Dil Fa
Diesel Range Organics (Over	<	50.0	U	50.0		m	ig/Kg		07/0	07/23 12:45	07/09/23 0	8:19	
C10-C28) Oll Range Organics (Over C28-C36)	50.0	ш	50.0		m	ig/Kg		07/0	17/23 12:45	07/09/23 0	8.10	
Total TPH		50.0		50.0			ig/Kg				07/09/23 0		
		00.0	•	00.0			9,9		0.70		01,00,200	00	
		MB											
Surrogate	%Recov		Qualifier	Limits						Prepared	Analyze		Dil Fa
1-Chlorooctane		151		70 - 130							07/09/23 0		
o-Terphenyl		131	S1+	70 - 130					07/0	07/23 12:45	07/09/23 0	8:19	
Lab Sample ID: LCS 880-57	168/2-4						Cli	ent	Sa	mole ID:	Lab Cont	rol S	amnl
Matrix: Solid	100/2-4							cint	ou		Prep Typ		
Analysis Batch: 57224											Prep Ba		
				Spike	LCS	LCS					%Rec		
Analyte				Added		Qualif	ier Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	881.5		mg/Kg		·	88	70 - 130		·
Diesel Range Organics (Over C10-C28)				1000	697.0		mg/Kg			70	70 - 130		
	LCS	LCS	5										
Surrogate	%Recovery	Qua	alifier	Limits									
1-Chlorooctane	87			70 - 130									
o-Terphenyl	80			70 - 130									
Lab Sample ID: LCSD 880-	57168/3-4						Client S	am	nlo	ID: Lab	Control S	amn	
Matrix: Solid							Unone u		pic		Prep Typ		
Analysis Batch: 57224											Prep Ba		
				Spike	LCSD	LCSD					%Rec		RPI
Analyte				Added	Result	Qualif	ier Unit		D	%Rec	Limits	RPD	
Gasoline Range Organics				1000	988.4		mg/Kg		-	99	70 - 130	11	
(GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)				1000	893.1	^1	mg/Kg			89	70 - 130	25	20
	LCSD	LCS	SD										
Surrogate	%Recovery			Limits									
1-Chlorooctane	108			70 - 130									
o-Terphenyl	98			70 - 130									
									_				• ••
Lab Sample ID: 890-4901-A Matrix: Solid	- <i>1-</i> D MS								С		nple ID: M Prep Typ		
Analysis Batch: 57224											Prep Ba	atch:	5716
	Sample	San	nple	Spike	MS	MS					%Rec		
Analyte	Result			Added		Qualif	ier Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	UF	1 F2	999	<50.0	U F1	mg/Kg		_	-2	70 - 130		
Diesel Range Organics (Over C10-C28)	239	*1 F	1 F2	999	235.9	F1	mg/Kg			-0.3	70 - 130		
	MS	мs											
Surrogate	%Recovery	Qua	alifier	Limits									

107

1-Chlorooctane

70 - 130

Lab Sample ID: 890-4901-A-7-D MS

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid									Prep Ty Prep F	Batch: 5	
Analysis Batch: 57224											
,											
0		MS									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	93		70 - 130								
Lab Sample ID: 890-4901-	A-7-E MSD					Client		le ID: N	Aatrix Spil	ke Dup	licate
Matrix: Solid									· Prep Ty		
Analysis Batch: 57224										Batch: 5	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1 F2	1000	1166	F2	mg/Kg		112	70 - 130	192	20
Diesel Range Organics (Over C10-C28)	239	*1 F1 F2	1000	1539	F2	mg/Kg		130	70 - 130	147	20
	MSD	MSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		<u>S1+</u>	70 - 130								
o-Terphenyl	109		70 - 130								
Method: 300.0 - Anion											
Lab Sample ID: MB 880-5 Matrix: Solid	8100/1-A						Clie	ent San	nple ID: M Prep T	ethod E ype: So	
Lab Sample ID: MB 880-5	8100/1-A						Clie	ent Sam			
Lab Sample ID: MB 880-5 Matrix: Solid	8100/1-A	MB MB					Clie	ent San			
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte	Re	esult Qualifier		RL	Unit			ent Sam	Prep T	ype: So zed _I	
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157	Re		·	RL 5.00	Unit mg/K				Prep T	ype: So zed _I	oluble
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride	<u>Re</u>	esult Qualifier				g	<u>D</u> P	repared	Prep Ty 	ype: So zed 14:12	Dil Fac
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5	<u>Re</u>	esult Qualifier				g	<u>D</u> P	repared	Prep Ty <u>Analy:</u> 	ype: So zed 14:12 ntrol Sa	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid	<u>Re</u>	esult Qualifier				g	<u>D</u> P	repared	Prep Ty <u>Analy:</u> 	ype: So zed 14:12	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5	<u>Re</u>	esult Qualifier		5.00	mg/K	g	<u>D</u> P	repared	Prep Ty 	ype: So zed 14:12 ntrol Sa	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157	<u>Re</u>	esult Qualifier	Spike	5.00 LCS	LCS	g Clie	D P	repared mple ID	Prep Ty <u>Analy:</u> 07/20/23 9: Lab Cor Prep Ty %Rec	ype: So zed 14:12 ntrol Sa	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid	<u>Re</u>	esult Qualifier	Spike Added	5.00 LCS	mg/K	g Clie Unit	<u>D</u> P	repared	Prep Ty 	ype: So zed 14:12 ntrol Sa	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157 Analyte	<u>Re</u>	esult Qualifier	Spike	5.00 LCS Result	LCS	g Clie	D P	repared mple ID	Prep Ty Analyz 07/20/23 9: Lab Cor Prep Ty %Rec Limits	ype: So zed 14:12 ntrol Sa	Dil Fac 1 1
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880	Re < 58100/2-A	esult Qualifier	Spike Added	5.00 LCS Result	LCS Qualifier	g Clie Unit mg/Kg	D P nt Sai	repared mple ID <u>%Rec</u> 93	Analy: 07/20/23 End Corr Prep Ty %Rec Limits 90 - 110 Control	ype: So ^{zed} 14:12 ntrol Sa ype: So Sample	Dill Fac 1 ample Diluble 2 Dup
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid	Re < 58100/2-A	esult Qualifier	Spike Added	5.00 LCS Result	LCS Qualifier	g Clie Unit mg/Kg	D P nt Sai	repared mple ID <u>%Rec</u> 93	Analy: 07/20/23 End Corr Prep Ty %Rec Limits 90 - 110 Control	ype: So zed 14:12 ntrol Sa ype: So	Dill Fac 1 ample Diluble 2 Dup
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880	Re < 58100/2-A	esult Qualifier	Spike Added 250	5.00 LCS Result 232.6	LCS Qualifier	g Clie Unit mg/Kg	D P nt Sai	repared mple ID <u>%Rec</u> 93	Prep Ty Analy: 07/20/23 E Lab Cor Prep Ty %Rec Limits 90 - 110 Control Prep Ty	ype: So ^{zed} 14:12 ntrol Sa ype: So Sample	Dil Fac 1 Imple Diuble
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid	Re < 58100/2-A	esult Qualifier	Spike Added	5.00 LCS Result 232.6	LCS Qualifier	g Clie Unit mg/Kg	D P nt Sai	repared mple ID <u>%Rec</u> 93 ID: Lat	Analy: 07/20/23 End Corr Prep Ty %Rec Limits 90 - 110 Control	ype: So zed 14:12 htrol Sa ype: So Sample ype: So	Dill Fac 1 ample Diluble 2 Dup
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157 Analyte	Re < 58100/2-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 232.6 LCSD Result	LCS Qualifier	g Clied Unit mg/Kg Client Sa	D P nt Sai	repared mple ID <u>%Rec</u> 93	Prep Ty Analyz 07/20/23 C Lab Cor Prep Ty %Rec Limits 90 - 110 Control Prep Ty %Rec Limits	ype: So zed 14:12 htrol Sa ype: So Sample ype: So 	Dil Fac 1 mple Diuble Duble PDuble RPD Limit
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157	Re < 58100/2-A	esult Qualifier	Spike Added 250 Spike	5.00 LCS Result 232.6	LCS Qualifier LCSD	g Clie Unit mg/Kg Client Sa	D <u>P</u> nt Sar D mple	repared mple ID <u>%Rec</u> 93 ID: Lat	Prep Ty Analyz 07/20/23 C Lab Cor Prep Ty %Rec Limits 90 - 110 Control Prep Ty %Rec	ype: So zed 14:12 htrol Sa ype: So Sample ype: So	Dil Fac 1 mple Dilble Duble PDuble RPD
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157 <u>Analyte</u> Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157	<u>Re</u> 58100/2-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 232.6 LCSD Result	LCS Qualifier LCSD	g Clied Unit mg/Kg Client Sa	D <u>P</u> nt Sar D mple	repared mple ID <u>%Rec</u> 93 ID: Lat	Analyz 07/20/23 0: Lab Corr Prep Ty %Rec Limits 90 - 110 O Control Prep Ty %Rec Limits 90 - 110 WRec Limits 90 - 110	ype: So zed 14:12 ntrol Sa ype: So Sample ype: So <u>RPD</u> 1 ple ID:	Dil Fac 1 mple Dilble P Dup Dilble RPD Limit 20 SS03
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: 890-4894- Matrix: Solid	<u>Re</u> 58100/2-A	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 232.6 LCSD Result	LCS Qualifier LCSD	g Clied Unit mg/Kg Client Sa	D <u>P</u> nt Sar D mple	repared mple ID <u>%Rec</u> 93 ID: Lat	Analyz 07/20/23 0: Lab Corr Prep Ty %Rec Limits 90 - 110 O Control Prep Ty %Rec Limits 90 - 110 WRec Limits 90 - 110	zed 14:12 ntrol Sa ype: So Sample ype: So	Dil Fac 1 mple Dilble P Dup Dilble RPD Limit 20 SS03
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157 <u>Analyte</u> Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157	Re 58100/2-A 0-58100/3-A 3 MS	25.00 U	Spike Added 250 Spike Added 250	5.00 LCS Result 232.6 LCSD Result 233.8	LCS Qualifier LCSD Qualifier	g Clied Unit mg/Kg Client Sa	D <u>P</u> nt Sar D mple	repared mple ID <u>%Rec</u> 93 ID: Lat	Prep Ty Analy: 07/20/23 E Lab Corr Prep Ty %Rec Limits 90 - 110 Control Prep Ty %Rec Limits 90 - 110 lient Sam Prep Ty	ype: So zed 14:12 ntrol Sa ype: So Sample ype: So <u>RPD</u> 1 ple ID:	Dil Fac 1 mple Dilble P Dup Dilble RPD Limit 20 SS03
Lab Sample ID: MB 880-5 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 58157 Analyte Chloride Lab Sample ID: 890-4894- Matrix: Solid	Re 58100/2-A 0-58100/3-A 3 MS Sample	esult Qualifier	Spike Added 250 Spike Added	5.00 LCS Result 232.6 LCSD Result 233.8	LCS Qualifier LCSD	g Clied Unit mg/Kg Client Sa	D <u>P</u> nt Sar D mple	repared mple ID <u>%Rec</u> 93 ID: Lat	Analyz 07/20/23 0: Lab Corr Prep Ty %Rec Limits 90 - 110 O Control Prep Ty %Rec Limits 90 - 110 WRec Limits 90 - 110	ype: So zed 14:12 ntrol Sa ype: So Sample ype: So <u>RPD</u> 1 ple ID:	Dil Fac 1 mple Dilble P Dup Dilble RPD Limit 20 SS03

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Client Sample ID: Matrix Spike

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method: 300.0 - Anions, Ion Chromatography (Continued)

.ab Sample ID: 890-4894-3 /latrix: Solid Analysis Batch: 58157	MSD							C	lient Samı Prep Ty			
		Sample	Spike		MSD		_		%Rec		RPD	
h nalyte	412	Qualifier	Added	679.7	Qualifier	Unit mg/Kg	D	%Rec 106	Limits 90 - 110	RPD	Limit 20	
			LOL	010.1		iiig/itg		100	00-110	·	20	
												Ĩ
												Ì
												ļ
												i

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

SS01

SS02

SS03

Client Sample ID

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Method Blank

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

8021B

8021B

Method

5035

94-1

MB 880-57060/5-A Prep Batch: 57090

GC VOA

Lab Sample ID

MB 880-57060/5-A

MB 880-57090/5-A

LCS 880-57090/1-A

LCSD 880-57090/2-A

880-30380-A-1-K MS

Prep Batch: 57060

880-30380-A-1-L MSD

890-4894-1

890-4894-2

890-4894-3

Analysis Batch: 57044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-4894-1	SS01	Total/NA	Solid	5035		
890-4894-2	SS02	Total/NA	Solid	5035		
890-4894-3	SS03	Total/NA	Solid	5035		
MB 880-57090/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-57090/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-57090/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
880-30380-A-1-K MS	Matrix Spike	Total/NA	Solid	5035		
880-30380-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		

Analysis Batch: 57151

Lab Sample ID 890-4894-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Total BTEX	Prep Batch
890-4894-2	SS02	Total/NA	Solid	Total BTEX	
890-4894-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 57168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4894-1	SS01	Total/NA	Solid	8015NM Prep	
890-4894-2	SS02	Total/NA	Solid	8015NM Prep	
890-4894-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-57168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4901-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4901-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57224

Lab Sample ID 890-4894-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 57168
890-4894-2	SS02	Total/NA	Solid	8015B NM	57168
890-4894-3	SS03	Total/NA	Solid	8015B NM	57168
MB 880-57168/1-A	Method Blank	Total/NA	Solid	8015B NM	57168
LCS 880-57168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57168

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Prep Batch

57090

57090

57090

57060

57090

57090

57090

57090

57090

Prep Batch

GC Semi VOA (Continued)

Lab Sample ID

Lab Sample ID

890-4894-1

LCSD 880-57168/3-A

890-4901-A-7-D MS

890-4901-A-7-E MSD

Analysis Batch: 57303

Analysis Batch: 57224 (Continued)

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Matrix

Solid

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Client Sample ID

Client Sample ID

SS01

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method

8015B NM

8015B NM

8015B NM

Method

8015 NM

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Prep Batch

Prep Batch

57168

57168

57168

8

890-4894-2 SS02 Solid 8015 NM 890-4894-3 SS03 Total/NA Solid 8015 NM HPLC/IC Leach Batch: 58100 I ah Samnia ID Client Sample ID Pren Tyne Matrix Method

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4894-1	SS01	Soluble	Solid	DI Leach	
890-4894-2	SS02	Soluble	Solid	DI Leach	
890-4894-3	SS03	Soluble	Solid	DI Leach	
MB 880-58100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4894-3 MS	SS03	Soluble	Solid	DI Leach	
890-4894-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 58157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4894-1	SS01	Soluble	Solid	300.0	58100
890-4894-2	SS02	Soluble	Solid	300.0	58100
890-4894-3	SS03	Soluble	Solid	300.0	58100
MB 880-58100/1-A	Method Blank	Soluble	Solid	300.0	58100
LCS 880-58100/2-A	Lab Control Sample	Soluble	Solid	300.0	58100
LCSD 880-58100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58100
890-4894-3 MS	SS03	Soluble	Solid	300.0	58100
890-4894-3 MSD	SS03	Soluble	Solid	300.0	58100

Eurofins Carlsbad

Released to Imaging: 11/28/2023 11:06:37 AM

Lab Chronicle

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Lab Sample ID: 890-4894-1

Client Sample ID: SS01 Date Collected: 07/03/23 08:17 Date Received: 07/03/23 10:15

Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Soluble Soluble

1: 07/03/23 1	0:15									- 4
Batch	Batch	_	Dil	Initial	Final	Batch	Prepared			5
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab)
Prep	5035			4.96 g	5 mL	57090	07/06/23 12:35	EL	EET MID	
Analysis	8021B		1	5 mL	5 mL	57044	07/07/23 07:30	SM	EET MID	
Analysis	Total BTEX		1			57151	07/07/23 10:20	SM	EET MID	
Analysis	8015 NM		1			57303	07/10/23 12:23	SM	EET MID	
Prep	8015NM Prep			9.96 g	10 mL	57168	07/07/23 12:45	SM	EET MID	0
Analysis	8015B NM		1	1 uL	1 uL	57224	07/09/23 15:44	SM	EET MID	ð
Leach	DI Leach			5.05 g	50 mL	58100	07/20/23 17:00	KS	EET MID	9
Analysis	300.0		10			58157	07/21/23 03:27	СН	EET MID	3

Lab Sample ID: 890-4894-2 Matrix: Solid

Lab Sample ID: 890-4894-3

Matrix: Solid

x: Solid

Client Sample ID: SS02 Date Collected: 07/03/23 08:18 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57090	07/06/23 12:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57044	07/07/23 07:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57151	07/07/23 10:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			57303	07/10/23 12:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57168	07/07/23 12:45	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57224	07/09/23 16:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58100	07/20/23 17:00	KS	EET MID
Soluble	Analysis	300.0		20			58157	07/21/23 03:32	СН	EET MID

Client Sample ID: SS03 Date Collected: 07/03/23 08:19 Date Received: 07/03/23 10:15

Batch Dil Initial Batch Batch Final Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 57090 Total/NA 4.98 g 5 mL 07/06/23 12:35 EL EET MID Total/NA 8021B Analysis 1 5 mL 5 mL 57044 07/07/23 08:12 SM EET MID Total/NA Analysis Total BTEX 1 57151 07/07/23 10:20 SM EET MID Total/NA Analysis 8015 NM 1 57303 07/10/23 12:23 SM EET MID 9.97 g Total/NA 8015NM Prep 57168 07/07/23 12:45 SM EET MID Prep 10 ml Total/NA Analysis 8015B NM 1 1 uL 1 uL 57224 07/09/23 16:27 SM EET MID 58100 Soluble Leach DI Leach 4.96 g 50 mL 07/20/23 17:00 KS EET MID Soluble Analysis 300.0 1 58157 07/21/23 03:37 CH EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-23-26	06-30-24
The following analyte the agency does not o		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Avantura in Mantha al	Prep Method	Matrix	Analyte	
Analysis Method	r rep metrioù	Maan	7 4101 9 10	
8015 NM		Solid	Total TPH	
,	8015NM Prep		,	

5 6 7

10

Method Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4894-1 SDG: 03D2024204 32.1943,-103.7194

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
)-4894-1	SS01	Solid	07/03/23 08:17	07/03/23 10:15	0.5
4894-2	SS02	Solid	07/03/23 08:18	07/03/23 10:15	0.5
-4894-3	SS03	Solid	07/03/23 08:19	07/03/23 10:15	0.5

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		nviror enco	nment Te	sting		Midland EL Pas	l, TX (43 o, TX (9	2) 704-54 15) 585-3	440, San 3443, Lui	Antonic bbock, T	X (806) 7) 509-3334	1					k Orde			1
Project Manager:	Hadlip.	Gree	<u> </u>		Bill to: (if	different	t)	K.	e'	Jen	nings									Comments	-
Company Name:	Ensolum			1	Compan			E	nsolu		LLC	,	_		Program	n: US	T/PST	PRP	Br	rownfields RR	c
Address:		lations		Hunge	Address:	, , , , , , , , , , , , , , , , , , , ,		3	122		HONA		NS F	Wy.	-	Project:			_		
City, State ZIP:	Corlstac		IM. 8	8220	City, Stat	e ZIP:		Con	risba	di	NM	88	270	7	Reporti	ng: Lev	vel II 🔀	Level	III 🗌	PST/UST TR	RP 🗌
Phone:	432-55			Email:			. P	ensol				1	- 10		Delivera	bles:	EDD [N	AD	DaPT 🔲 Othe	er:
	Windurard		1			und in				12823		ANI		REQUES	т					Preserva	tive
Project Name: Project Number:	King tot	Fed	CTB	Routine	Around Rush		Pres.	1-1			Т			I	<u> </u>	1		T		None: NO	C
	5105 +++ 333203 32.1447	14 201	7194	Due Date:			Code			-	-+		+			- -				Cool: Cool	Ν
Project Location: Sampler's Name:		Green		TAT starts the	day receive	ed by	1				i i									HCL: HC	F
PO #:	Hadric	V · CCII	~	the lab, if rec					Vh	0			, 11 11 81 - 91 - 9			1	I	ł	I	H ₂ SO ₄ : H ₂	N
SAMPLE RECEIPT	Temp B	Blank:	(Yes No	Wet Ice:	Yes	No	eters	ICOS	1005	300										H ₃ PO ₄ : HP	
Samples Received Inta		No	Thermomet	er ID:	him		Parameters	3	14											NaHSO 4: NAB	IS
Cooler Custody Seals:	Yes No	N/A	Correction F	actor:	-0	.2	Pa		10											Na 2S 2O3: NaS	Э 3
Sample Custody Seals	: Yes No	W/A)	Temperatur	e Reading:		· 2		X	3/015	de		890-4	4894 C	nain of	Custod	/				Zn Acetate+Na	
Total Containers:			Corrected T	emperature:	<u> </u>	.0	-	NY N		50		1	1	1	1	2			1	NaOH+Ascorb	ic Aci
Sample Ident	ification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	81	HOT	Chloride										Sample	Com
5	501	ς.	7/3/23	0817	0.5'	6	1	X	×												
5	562	5	713/23	0818	0.5	6	1	X	X				_		_		_		-		
5.	503	5	713/23	0819	0.5'	6	1	×	×				_		_				_		
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			1																		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Received by: (Signature)

Received by: (Signature)

TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

04

Date/Time

713.

Relinquished by: (Signature)

Released to Imaging: 11/28/2023 11:06:37 AM

Relinquished by: (Signature)

mon Atta

Circle Method(s) and Metal(s) to be analyzed

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4894 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-4894-1

List Source: Eurofins Carlsbad

SDG Number: 03D2024204 32.1943,-103.7194

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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4894 List Number: 2 Creator: Rodriguez, Leticia Job Number: 890-4894-1 SDG Number: 03D2024204 32.1943,-103.7194

List Source: Eurofins Midland List Creation: 07/06/23 10:57 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Received by OCD: 9/7/2023 8:17:39 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/12/2023 8:59:52 AM

JOB DESCRIPTION

Windward Fed 2H & King Tut Fed CTB SDG NUMBER 03D2024204

JOB NUMBER

890-4895-1



Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

AMER

Generated 7/12/2023 8:59:52 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: 03D2024204

Laboratory Job ID: 890-4895-1

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-	23

Definitions/Glossary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

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Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	_
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	12
CNF	Contains No Free Liquid	13

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 890-4895-1 SDG: 03D2024204

Case Narrative

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4895-1 SDG: 03D2024204

Job ID: 890-4895-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4895-1

Receipt

The samples were received on 7/3/2023 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS04 (890-4895-1), SS05 (890-4895-2), SS06 (890-4895-3) and SS07 (890-4895-4).

GC VOA

Method 8021B: CCV was biased high for analytes. Since no analytes were detected, the data was qualified and reported.(CCV 880-57118/20) and (CCV 880-57118/33)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS05 (890-4895-2), SS07 (890-4895-4) and (890-4895-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-57165 and analytical batch 880-57372 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

4

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Client Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Client Sample ID: SS04

Date Collected: 07/03/23 08:20 Date Received: 07/03/23 10:15

Sample Depth: 0.5

Toluene <0 Ethylbenzene <0 m-Xylene & p-Xylene <0 o-Xylene <0 Xylenes, Total <0 Surrogate %Red 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Total BTE Analyte Total BTEX <0 Method: SW846 8015 NM - Diesel Range (Analyte Total TPH Method: SW846 8015B NM - Diesel Range (Analyte)	107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	U U U U U U U U U U U U U U U U U U U	RL 49.9	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg	D	07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 Prepared 07/07/23 09:28 Prepared Prepared	07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 10:20 07/07/23 15:18 Analyzed 07/10/23 15:18 07/12/23 09:47	Dil Fac
Ethylbenzene <0	0.00201 0.00402 0.00201 0.00402 252 107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	U U U U U U U U S1+ Culation Qualifier U U U U U U U U U U U U U U U U U U U	0.00201 0.00402 0.00201 0.00402 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL 0.00402 GC) <u>RL</u> 49.9	mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg		07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 Prepared 07/07/23 09:28 07/07/23 09:28 Prepared	07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 Analyzed 07/07/23 20:20 07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	Dil Fac
m-Xylene & p-Xylene <0 p-Xylene <0 Xylenes, Total <0 Surrogate %Rev 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Total BTE Analyte Total BTEX <0 Method: SW846 8015 NM - Diesel Range (Analyte Total TPH Method: SW846 8015B NM - Diesel Range (Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	0.00402 0.00201 0.00402 ecovery 252 107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	U U U Qualifier S1+ Culation Qualifier U ics (DRO) (0 Qualifier U	0.00402 0.00201 0.00402 <u>Limits</u> 70 - 130 70 - 130 RL 0.00402 GC) RL 49.9	mg/Kg mg/Kg mg/Kg Unit mg/Kg		07/07/23 09:28 07/07/23 09:28 07/07/23 09:28 Prepared 07/07/23 09:28 07/07/23 09:28 Prepared	07/07/23 20:20 07/07/23 20:20 07/07/23 20:20 Analyzed 07/07/23 20:20 07/07/23 20:20 07/07/23 15:18 Analyzed	Dil Fac
o-Xylene <0	0.00201 0.00402 252 107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	U U S1+ Culation Qualifier U ics (DRO) (0 Qualifier U	0.00201 0.00402 <u>Limits</u> 70 - 130 70 - 130 <u>RL</u> 0.00402 GC) <u>RL</u> 49.9	mg/Kg mg/Kg Unit mg/Kg		07/07/23 09:28 07/07/23 09:28 Prepared 07/07/23 09:28 07/07/23 09:28 Prepared	07/07/23 20:20 07/07/23 20:20 Analyzed 07/07/23 20:20 07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	Dil Fac
Xylenes, Total <0	0.00402 252 107 EX Calc Result 0.00402 Organ Result <9.9 e Orga	U Qualifier S1+ Culation Qualifier U ics (DRO) (Q Qualifier U	0.00402 <u>Limits</u> 70 - 130 70 - 130 RL 0.00402 GC) <u>RL</u> 49.9	Unit Unit		07/07/23 09:28 Prepared 07/07/23 09:28 07/07/23 09:28 Prepared	07/07/23 20:20 Analyzed 07/07/23 20:20 07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	Dil Fac
Surrogate %Ret 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Total BTE Analyte Total BTEX <0	Excovery 252 107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	Qualifier S1+ Qualifier U ics (DRO) (0 Qualifier U	Limits 70 - 130 70 - 130 RL 0.00402 GC) RL 49.9	Unit mg/Kg		Prepared 07/07/23 09:28 07/07/23 09:28 Prepared	Analyzed 07/07/23 20:20 07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Total BTE Analyte Total BTEX <0 Method: SW846 8015 NM - Diesel Range Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	252 107 EX Calo Result 0.00402 Organ Result <49.9 e Orga	S1+ Qualifier U ics (DRO) ((Qualifier U	70 - 130 70 - 130 RL 0.00402 GC) RL 49.9	mg/Kg Unit		07/07/23 09:28 07/07/23 09:28 Prepared	07/07/23 20:20 07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	1 Dil Fac 1 Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Total BTE Analyte Total BTEX Method: SW846 8015 NM - Diesel Range Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 EX Calc Result 0.00402 Organ Result <49.9 e Orga	Culation Qualifier U ics (DRO) ((Qualifier U	70 - 130 	mg/Kg Unit		07/07/23 09:28 Prepared	07/07/23 20:20 Analyzed 07/10/23 15:18 Analyzed	Dil Fac 1 Dil Fac
Method: TAL SOP Total BTEX - Total BTE. Analyte Total BTEX Method: SW846 8015 NM - Diesel Range (Analyte Total TPH Method: SW846 8015B NM - Diesel Range (Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Crgan Result 0.00402 Organ Result <49.9 e Orga	Qualifier U ics (DRO) (0 Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg Unit		Prepared	Analyzed 07/10/23 15:18 Analyzed	1 Dil Fac
Analyte Total BTEX <pre></pre>	Result 0.00402 Organ Result <49.9 e Orga	Qualifier U ics (DRO) (0 Qualifier U	0.00402 GC) RL 49.9	mg/Kg Unit			07/10/23 15:18 Analyzed	1 Dil Fac
Total BTEX <0 Method: SW846 8015 NM - Diesel Range (Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	0.00402 Organ Result <49.9 e Orga	U ics (DRO) ((Qualifier U	0.00402 GC) RL 49.9	mg/Kg Unit			07/10/23 15:18 Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Range (Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organ Result <49.9	ics (DRO) (0 Qualifier U	GC) 	Unit	D	Prepared	Analyzed	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 e Orga	U	49.9		<u> </u>	Prepared		
Method: SW846 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Orga			mg/Kg			07/12/23 09:47	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	· ·	nics (DRO)	(GC)					
GRO)-C6-C10 Diesel Range Organics (Over		Qualifier		Unit	<u> </u>	Prepared	Analyzed	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	Qualifier	RL	Unit mg/Kg	<u> </u>	Prepared 07/07/23 12:33	Analyzed	Dil Fac
	<49.9		49.9	mg/Kg		07/07/23 12:33	07/11/23 23:10	1
	~ 49.9	0	49.9	iiig/Ky		01101123 12.33	07/11/23 23.10	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/11/23 23:10	1
Total TPH	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/11/23 23:10	1
Surrogate %Re	ecovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/07/23 12:33	07/11/23 23:10	1
o-Terphenyl	107		70 - 130			07/07/23 12:33	07/11/23 23:10	1
Method: EPA 300.0 - Anions, Ion Chromat	tograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.7		4.96	mg/Kg			07/07/23 19:51	1
lient Sample ID: SS05						Lab San	nple ID: 890-4	1895-2
ate Collected: 07/03/23 08:21							Matri	c: Solid
ate Received: 07/03/23 10:15								

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 20:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 20:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 20:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/07/23 09:28	07/07/23 20:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 20:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/07/23 09:28	07/07/23 20:46	1

Eurofins Carlsbad

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Job ID: 890-4895-1 SDG: 03D2024204

Lab Sample ID: 890-4895-1

Matrix: Solid

12 13 14

7/12/2023

Client: Ensolum

Client Sample Results

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Job ID: 890-4895-1 SDG: 03D2024204

Surrogate 1-Bromofluorobenzene (Surr)	%Recovery	Qualifier S1+				Prepared 07/07/23 09:28	Analyzed 07/07/23 21:12	Dil Fa
S	0/ P	O						
Kylenes, Total	<0.00396		0.00396	mg/Kg		07/07/23 09:28	07/07/23 21:12	
p-Xylene	< 0.00198		0.00198	mg/Kg		07/07/23 09:28	07/07/23 21:12	
n-Xylene & p-Xylene	< 0.00396		0.00396	mg/Kg		07/07/23 09:28	07/07/23 21:12	
Ethylbenzene	< 0.00198		0.00198	mg/Kg		07/07/23 09:28	07/07/23 21:12	
Toluene	< 0.00198		0.00198	mg/Kg		07/07/23 09:28	07/07/23 21:12	
Benzene	<0.00198		0.00198	mg/Kg		07/07/23 09:28	07/07/23 21:12	
Method: SW846 8021B - Volatile (Analyte		ounds (GC) Qualifier) RL	Unit	D	Prepared	Analyzed	Dil Fa
ample Depth: 0.5								
ate Received: 07/03/23 10:15							wat	A. 001
ate Collected: 07/03/23 08:22								ix: Soli
lient Sample ID: SS06						Lab San	nple ID: 890-	4895-
Analyte Chloride	44.9	Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/07/23 20:07	Dil Fa
Method: EPA 300.0 - Anions, Ion		-		11-14		Durante	Ameliand	
p-Terphenyl	117		70 - 130			07/07/23 12:33	07/12/23 00:14	
I-Chlorooctane		57+	70 - 130			07/07/23 12:33	07/12/23 00:14	
Surrogate	%Recovery	Qualifier S1+	Limits			Prepared	Analyzed	Dil Fa
				mg/rtg				
DII Range Organics (Over C28-C36) Fotal TPH	<49.9 <49.9		49.9 49.9	mg/Kg mg/Kg		07/07/23 12:33	07/12/23 00:14 07/12/23 00:14	
Diesel Range Organics (Over C10-C28)	<49.9		49.9 49.9	mg/Kg		07/07/23 12:33	07/12/23 00:14	
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 00:14	
Analyte		Qualifier		Unit	D	Prepared	Analyzed 07/12/23 00:14	Dil F
Method: SW846 8015B NM - Dies			· · · ·		_			
Total TPH	<49.9	U	49.9	mg/Kg			07/12/23 09:47	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/10/23 15:18	
Method: TAL SOP Total BTEX - To Analyte		Culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	80		70 - 130			07/07/23 09:28	07/07/23 20:46	
1-Bromofluorobenzene (Surr)		S1+	70 - 130			07/07/23 09:28	07/07/23 20:46	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil F
ample Depth: 0.5								
ate Received: 07/03/23 10:15							Wati	. J
							Matr	ix: Soli
ient Sample ID: SS05 ite Collected: 07/03/23 08:21						Lab Gai	nple ID: 890-	-000

Method: TAL SOP Total BTEX - Tot	al BIEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/10/23 15:18	1

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Released to Imaging: 11/28/2023 11:06:37 AM

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Project/Site: Windward Fed 2H & King Tut Fed CTB

Client Sample Results

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Job ID: 890-4895-1 SDG: 03D2024204

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4895-3

Client Sample ID: SS06

Date Collected: 07/03/23 08:22 Date Received: 07/03/23 10:15

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/12/23 09:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 00:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 00:35	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 00:35	1
Total TPH	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			07/07/23 12:33	07/12/23 00:35	1
o-Terphenyl	104		70 - 130			07/07/23 12:33	07/12/23 00:35	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.97	mg/Kg			07/07/23 20:12	1

Client Sample ID: SS07

Date Collected: 07/03/23 08:23

Date Received: 07/03/23 10:15

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier RL Unit D Dil Fac Analyte Prepared Analyzed Benzene <0.00199 U 0.00199 mg/Kg 07/07/23 09:28 07/07/23 21:38 1 Toluene <0.00199 U 0.00199 07/07/23 09:28 07/07/23 21:38 mg/Kg 1 07/07/23 09:28 07/07/23 21:38 Ethylbenzene <0.00199 U 0.00199 mg/Kg 1 m-Xylene & p-Xylene <0.00398 U 0.00398 07/07/23 09:28 07/07/23 21:38 mg/Kg 1 07/07/23 09:28 o-Xylene <0.00199 U 0.00199 mg/Kg 07/07/23 21:38 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 07/07/23 09:28 07/07/23 21:38 1 Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 198 S1+ 70 - 130 07/07/23 09:28 07/07/23 21:38 1 07/07/23 21:38 1,4-Difluorobenzene (Surr) 89 70 - 130 07/07/23 09:28 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 07/10/23 15:18 0.00398 mg/Kg 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.5 U 50.5 mg/Kg 07/12/23 09:47 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed Gasoline Range Organics <50.5 U 50.5 mg/Kg 07/07/23 12:33 07/12/23 00:57 (GRO)-C6-C10 **Diesel Range Organics (Over** <50.5 U 50.5 mg/Kg 07/07/23 12:33 07/12/23 00:57

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07/12/23 00:57

Oll Range Organics (Over C28-C36)

C10-C28)

50.5

mg/Kg

07/07/23 12:33

<50.5 U

Client Sample Results

Job ID: 890-4895-1 SDG: 03D2024204

Matrix: Solid

Lab Sample ID: 890-4895-4

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Client Sample ID: SS07

Date Collected: 07/03/23 08:23 Date Received: 07/03/23 10:15

Method: SW846 8015B I	NM - Diesel Range Orga	nics (DRO)	(GC) (Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg		07/07/23 12:33	07/12/23 00:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			07/07/23 12:33	07/12/23 00:57	1
o-Terphenyl	120		70 - 130			07/07/23 12:33	07/12/23 00:57	1
- Method: EPA 300.0 - Ani	ions, Ion Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		5.03	mg/Kg			07/07/23 20:17	1

Surrogate Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-30420-A-1-C MS	Matrix Spike	171 S1+	82		
880-30420-A-1-D MSD	Matrix Spike Duplicate	162 S1+	73		6
890-4895-1	SS04	252 S1+	107		
890-4895-2	SS05	197 S1+	80		
890-4895-3	SS06	198 S1+	77		_
890-4895-4	SS07	198 S1+	89		8
LCS 880-57125/1-A	Lab Control Sample	155 S1+	66 S1-		
LCSD 880-57125/2-A	Lab Control Sample Dup	147 S1+	78		0
MB 880-57125/5-A	Method Blank	104	73		3
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

_				Percent Surrogate Recovery (Acceptance Limits)		
		1CO1	OTPH1		- 7	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-4895-1	SS04	124	107			
890-4895-1 MS	SS04	117	92			
890-4895-1 MSD	SS04	133 S1+	104			
890-4895-2	SS05	136 S1+	117			
890-4895-3	SS06	121	104			
890-4895-4	SS07	139 S1+	120			
LCS 880-57165/2-A	Lab Control Sample	106	93			
LCSD 880-57165/3-A	Lab Control Sample Dup	114	101			
MB 880-57165/1-A	Method Blank	120	105			

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

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Job ID: 890-4895-1 SDG: 03D2024204

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57125 Matrix: Solid Analysis Batch: 57118	′5-A			
	MB	МВ		
Analyte	Result	Qualifier	RL	Unit
Benzene	<0.00200	U	0.00200	mg/Kg
Toluene	<0.00200	U	0.00200	mg/Kg
Ethylbonzono	<0.00200		0.00200	malka

Ethylbenzene	<0.00200	U	0.00200	mg/Kg	07/07/23 09:28	07/07/23 11:39
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	07/07/23 09:28	07/07/23 11:39
o-Xylene	<0.00200	U	0.00200	mg/Kg	07/07/23 09:28	07/07/23 11:39
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	07/07/23 09:28	07/07/23 11:39
	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
4-Bromofluorobenzene (Surr)	104		70 - 130		07/07/23 09:28	07/07/23 11:39
1,4-Difluorobenzene (Surr)	73		70 - 130		07/07/23 09:28	07/07/23 11:39

Lab Sample ID: LCS 880-57125/1-A Matrix: Solid

Analysis Batch: 57118

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1135		mg/Kg		114	70 - 130	
Toluene	0.100	0.1138		mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: LCSD 880-57125/2-A

Matrix: Solid

Analysis Batch: 57118							Prep	Batch:	57125
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1208		mg/Kg		121	70 - 130	6	35
Toluene	0.100	0.1127		mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.1177		mg/Kg		118	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2362		mg/Kg		118	70 - 130	7	35
o-Xylene	0.100	0.1176		mg/Kg		118	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 _ 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-30420-A-1-C MS

Matrix: Solid Analysis Potoby 57449

Analysis Batch: 57118									Prep	Batch: 57125
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0994	0.1012		mg/Kg		102	70 - 130	
Toluene	<0.00198	U	0.0994	0.09116		mg/Kg		92	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Analyzed

07/07/23 11:39

07/07/23 11:39

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

D

Prepared

07/07/23 09:28

07/07/23 09:28

Job ID: 890-4895-1

SDG: 03D2024204

Lab Sample ID: 880-30420-A-1-C MS

Lab Sample ID: 880-30420-A-1-D MSD

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 57118

QC Sample Results

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.07584

0.1604

0.08102

Spike

Added

0.0994

0.199

0.0994

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

<0.00198

<0.00396 U

<0.00198 U

171 S1+

82

73

%Recovery

Sample Sample

MS MS

Qualifier

Result Qualifier

U

Prep Type: Total/NA

Prep Batch: 57125

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

76

81

82

D

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	5
	7
	8
	9

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 57118

1,4-Difluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 57118									Prep	Batch:	57125	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00198	U	0.0998	0.1045		mg/Kg		105	70 - 130	3	35	
Toluene	<0.00198	U	0.0998	0.1022		mg/Kg		102	70 - 130	11	35	ï
Ethylbenzene	<0.00198	U	0.0998	0.09535		mg/Kg		96	70 - 130	23	35	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1895		mg/Kg		95	70 - 130	17	35	ŝ
o-Xylene	<0.00198	U	0.0998	0.09564		mg/Kg		96	70 _ 130	17	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130									

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-57165/1-A Matrix: Solid Analysis Batch: 57372						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
Total TPH	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/07/23 12:33	07/11/23 22:05	1
o-Terphenyl	105		70 - 130			07/07/23 12:33	07/11/23 22:05	1

Matrix: Solid Prep Type: Total/NA Analysis Batch: 57372 Prep Batch: 57165 LCS LCS Spike %Rec Analyte Added **Result Qualifier** Unit D %Rec Limits Gasoline Range Organics 1000 980.1 mg/Kg 98 70 - 130

(GRO)-C6-C10

Lab Sample ID: LCS 880-57165/2-A

Matrix: Solid

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 57372

Diesel Range Organics (Over

QC Sample Results

LCS LCS

999.5

Result Qualifier

Unit

mg/Kg

Spike

Added

Limits

70 - 130

70 - 130

1000

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS %Recovery Qualifier

106

93

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SDG: 03D2024204

Prep Type: Total/NA

Client Sample ID: SS04 Prep Type: Total/NA

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 57165

Client Sample ID: Lab Control Sample

%Rec

Limits

70 - 130

Client Sample ID: Lab Control Sample Dup

%Rec

100

D

							ype: To Batch:		
Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1000	912.5		mg/Kg		91	70 - 130	7	20	
1000	906.2		mg/Kg		91	70 - 130	10	20	
									13
Limits									
70 - 130									

|--|--|

Lab Sample ID: LCSD 880-57165/3-A

Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	912.5		mg/Kg		91	70 - 130	7	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	906.2		mg/Kg		91	70 - 130	10	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1 Chlorooctane			70 120								

j	,,	
1-Chlorooctane	114	 70 - 130
o-Terphenyl	101	70 - 130

Lab Sample ID: 890-4895-1 MS	
Matrix: Solid	

Analysis Batch: 57372									Prep	Batch:	57165
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U F2	999	852.1		mg/Kg		81	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1069		mg/Kg		105	70 - 130		
C10-C28)											

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-4895-1 MSD Matrix: Solid

Analysis Batch: 57372									Prep	Batch:	57165
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F2	1000	1050	F2	mg/Kg		101	70 - 130	21	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1000	1234		mg/Kg		121	70 - 130	14	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	104		70 - 130

Client: Ensolum

QC Sample Results

Job ID: 890-4895-1 SDG: 03D2024204

Project/Site: Windward Fed 2H & King Tut Fed CTB Method: 300.0 - Anions, Ion Chromatography

-														
Lab Sample ID: MB 880-57031/1-A											Client S	Sample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 57192														
		MB	MB											
Analyte			Qualifier		RL		Un	-	D	Pi	repared	Analyz	ed	Dil Fac
Chloride	<	\$.00	U		5.00		mg	/Kg				07/07/23	19:36	1
_ Lab Sample ID: LCS 880-57031/2-A	L.								Cli	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 57192														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		254.2		mg/Kg		_	102	90 - 110		
- Lab Sample ID: LCSD 880-57031/3-	A							CI	ient S	am	ple ID:	Lab Contro	l Sampl	e Dur
Matrix: Solid													Type: S	
Analysis Batch: 57192														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		256.0		mg/Kg		_	102	90 - 110	1	20
Lab Sample ID: 890-4895-1 MS												Client Sa	mple ID:	SS04
Matrix: Solid													Type: S	
Analysis Batch: 57192														
	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	D 14	Qual	lifior	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Analyte	Result	Quai	iner											
Chloride	88.7	Quai		248		330.6		mg/Kg			98	90 - 110		
Chloride		Quai						mg/Kg			98		mple ID:	SS04
		Quai						mg/Kg			98	Client Sa		
Chloride Lab Sample ID: 890-4895-1 MSD								mg/Kg			98	Client Sa	mple ID: Type: S	
Chloride Lab Sample ID: 890-4895-1 MSD Matrix: Solid							MSD	mg/Kg			98	Client Sa		
Chloride Lab Sample ID: 890-4895-1 MSD Matrix: Solid	88.7	Sam	ple	248		330.6 MSD	MSD Qualifier			D	98 %Rec	Client Sa Prep		oluble

QC Association Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

GC VOA

Analysis Batch: 57118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4895-1	SS04	Total/NA	Solid	8021B	57125
890-4895-2	SS05	Total/NA	Solid	8021B	57125
890-4895-3	SS06	Total/NA	Solid	8021B	57125
890-4895-4	SS07	Total/NA	Solid	8021B	57125
MB 880-57125/5-A	Method Blank	Total/NA	Solid	8021B	57125
LCS 880-57125/1-A	Lab Control Sample	Total/NA	Solid	8021B	57125
LCSD 880-57125/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57125
880-30420-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	57125
880-30420-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57125

Prep Batch: 57125

LC3D 000-37 123/2-A	Lab Control Sample Dup	TOtal/INA	3010	00210	57125	
880-30420-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	57125	8
880-30420-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57125	
Prep Batch: 57125						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	10
890-4895-1	SS04	Total/NA	Solid	5035		
890-4895-2	SS05	Total/NA	Solid	5035		44
890-4895-3	SS06	Total/NA	Solid	5035		
890-4895-4	SS07	Total/NA	Solid	5035		12
MB 880-57125/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-57125/1-A	Lab Control Sample	Total/NA	Solid	5035		4.9
LCSD 880-57125/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		13
880-30420-A-1-C MS	Matrix Spike	Total/NA	Solid	5035		
880-30420-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		14

Analysis Batch: 57355

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Prep Batch
890-4895-1	SS04	Total/NA	Solid	Total BTEX
890-4895-2	SS05	Total/NA	Solid	Total BTEX
890-4895-3	SS06	Total/NA	Solid	Total BTEX
890-4895-4	SS07	Total/NA	Solid	Total BTEX

GC Semi VOA

Prep Batch: 57165

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4895-1	SS04	Total/NA	Solid	8015NM Prep	
890-4895-2	SS05	Total/NA	Solid	8015NM Prep	
890-4895-3	SS06	Total/NA	Solid	8015NM Prep	
890-4895-4	SS07	Total/NA	Solid	8015NM Prep	
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4895-1 MS	SS04	Total/NA	Solid	8015NM Prep	
890-4895-1 MSD	SS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57372

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4895-1	SS04	Total/NA	Solid	8015B NM	57165
890-4895-2	SS05	Total/NA	Solid	8015B NM	57165
890-4895-3	SS06	Total/NA	Solid	8015B NM	57165
890-4895-4	SS07	Total/NA	Solid	8015B NM	57165
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015B NM	57165
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57165

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Job ID: 890-4895-1 SDG: 03D2024204

QC Association Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

GC Semi VOA (Continued)

Analysis Batch: 57372 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57165
890-4895-1 MS	SS04	Total/NA	Solid	8015B NM	57165
890-4895-1 MSD	SS04	Total/NA	Solid	8015B NM	57165
Analysis Batch: 57472					

Analysis Batch: 57472

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
890-4895-1	SS04	Total/NA	Solid	8015 NM	
890-4895-2	SS05	Total/NA	Solid	8015 NM	
890-4895-3	SS06	Total/NA	Solid	8015 NM	
890-4895-4	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4895-1	SS04	Soluble	Solid	DI Leach	
890-4895-2	SS05	Soluble	Solid	DI Leach	
890-4895-3	SS06	Soluble	Solid	DI Leach	
890-4895-4	SS07	Soluble	Solid	DI Leach	
MB 880-57031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4895-1 MS	SS04	Soluble	Solid	DI Leach	
890-4895-1 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 57192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4895-1	SS04	Soluble	Solid	300.0	57031
890-4895-2	SS05	Soluble	Solid	300.0	57031
890-4895-3	SS06	Soluble	Solid	300.0	57031
890-4895-4	SS07	Soluble	Solid	300.0	57031
MB 880-57031/1-A	Method Blank	Soluble	Solid	300.0	57031
LCS 880-57031/2-A	Lab Control Sample	Soluble	Solid	300.0	57031
LCSD 880-57031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57031
890-4895-1 MS	SS04	Soluble	Solid	300.0	57031
890-4895-1 MSD	SS04	Soluble	Solid	300.0	57031

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Job ID: 890-4895-1 SDG: 03D2024204 Project/Site: Windward Fed 2H & King Tut Fed CTB

Job ID: 890-4895-1 SDG: 03D2024204

Client Sample ID: SS04 Date Collected: 07/03/23 08:20

Client: Ensolum

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57125	07/07/23 09:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57118	07/07/23 20:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57355	07/10/23 15:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57472	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/11/23 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 19:51	СН	EET MID

Client Sample ID: SS05

Date Collected: 07/03/23 08:21

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57125	07/07/23 09:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57118	07/07/23 20:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57355	07/10/23 15:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57472	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:07	СН	EET MID

Client Sample ID: SS06

Date Collected: 07/03/23 08:22

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57125	07/07/23 09:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57118	07/07/23 21:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57355	07/10/23 15:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57472	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 00:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:12	СН	EET MID

Client Sample ID: SS07 Date Collected: 07/03/23 08:23 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57125	07/07/23 09:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57118	07/07/23 21:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57355	07/10/23 15:18	AJ	EET MID

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Lab Sample ID: 890-4895-1 Matrix: Solid

5 9

Lab Sample ID: 890-4895-2 Matrix: Solid

Lab Sample ID: 890-4895-3

Lab Sample ID: 890-4895-4

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Client Sample ID: SS07 Date Collected: 07/03/23 08:23

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57472	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 00:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:17	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Job ID: 890-4895-1 SDG: 03D2024204

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Lab Sample ID: 890-4895-4

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	F	rogram	Identification Number	Expiration Date
exas	Ν	IELAP	T104704400-23-26	06-30-24
• ,	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh
the agency does not of		Motrix	Analyta	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
U		Matrix Solid	Analyte Total TPH	
Analysis Method			,	

Job ID: 890-4895-1 SDG: 03D2024204

Eurofins Carlsbad

ID: 000 4005 4

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Method Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4895-1 SDG: 03D2024204

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	erences:		
ASTM = A	ASTM International		
EPA = US	Environmental Protection Agency		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Sample Summary

Client: Ensolum Project/Site: Windward Fed 2H & King Tut Fed CTB Job ID: 890-4895-1 SDG: 03D2024204

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth																			
90-4895-1	SS04	Solid	07/03/23 08:20	07/03/23 10:15	0.5	_																		
90-4895-2	SS05	Solid	07/03/23 08:21	07/03/23 10:15	0.5																			
90-4895-3	SS06	Solid	07/03/23 08:22	07/03/23 10:15	0.5	. (
90-4895-4	SS07	Solid	07/03/23 08:23	07/03/23 10:15	0.5																			
						8																		
						1																		
						1																		
	ပ		ωσ	9 6		12	13																	
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						Hobb	s, NM (5	75) 392-	7550, Ca	arlsbad,	NM (57	5) 988-3	199						www.	xenco	o.com	Page	of	
Project Manager:	Hadlie	600	e n		Bill to: (if	f differen	it)	Ke	lei	Jen	nings								Wo	ork Ore	der Co	mments		
Company Name:	Ensolur				Compan	y Name	:	1.6	nsal	u nh	LL	٢.				Program				PRP	Brow	wnfields 🗌		uperfund [
Address:	3122 Nal	Honel	Parks	Hung	Address:			31	12 6	Arts	Ind	Notio	nd P	ints	tury.	State of		-						
City, State ZIP:	(artspad)	NM	, 882:	10	City, Stat	te ZIP:			Isbus	1. 1	MU	48	1220		0	Reporti	ng: Le			evel III (P	PST/UST		Level IV
Phone:	432-5		895	Email:		Kje	nning	50	ensol	M.	LON					Deliver	ables:	ED	D 🔀		ADaP	т 🗌 🔹 (Other:	
Project Name:	Windwood Fed	THAK:	- tul Fed	CTB TUR	Around								ANALY	SIS RE	OUES	Т						Pres	ervative Co	des
Project Number:	030 201		. 7	Routine	Rush	n	Pres. Code															None: NO		Vater: H ₂ O
Project Location:	32.1947	-10	2.7194	Due Date:																		Cool: Cool	Me	DH: Me
Sampler's Name:	Hadlic			TAT starts the	day receiv	ed by	1								NO TONES DA				11			HCL: HC	HNC	D ₃: HN
PO #:			\cap	the lab, if rec	eived by 4:	30pm													M			H ₂ SO 4: H ₂	NaC)H:Na
SAMPLE RECEIPT	Jemp B	Blank:	Yes No	Wet Ice:	Yes	No	Parameters			8				11111								H₃PO ₄: HP		
Samples Received Inta		No	Thermomet	er ID:	nma		aram	1208	SIDR	M							stody		111			NaHSO ₄: I		
Cooler Custody Seals:	Yes No	1	Correction F		-0.		-	38	30				890)-4895	Chai	n of Cu	5104)					Na 25 203:		
Sample Custody Seals:	Yes No	N/A	Temperatur		24	- 2	-			40					2								e+NaOH: Zn orbic Acid: S	APC
Total Containers:		1		emperature:	4			RICX	HE	Chloride	-				4							NaOITTAS		
Sample Identi	fication	Matrix	Date Sampled	Time Sampled	Depth	Grab/		100	F	U												Sam	ple Comme	ents
5504		5	7/2/23	0820	0.51	6	1	1		1														
5505		S	7/8/23	(082)	0.5'	4	1	+																
5506		5	7/3/22		0.5	6	1	1																
SSA7		5	7/3/23	0823	0.5	G	1	17		/														
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Total 200.7 / 6010 Circle Method(s) a				RCRA 13PF TCLP/S																		TI Sn U / 7470 / 7		
Notice: Signature of this docu of service. Eurofins Xenco wil of Eurofins Xenco. A minimur	iment and relinquishm	ent of samp cost of samp	les constitutes a ples and shall not	valid purchase ord	er from clien nsibility for a	any losses	y to Euro or expen	fins Xenc	o, its affili red by the	ates and client if	subcom	tractors. It ses are du	t assigns : le to circu	standard umstance	terms a es beyon	nd conditi d the cont	ons rol							
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5				v				_		-	6	_								_		Rev	ised Date: 08/25/20	020 Rev. 2020.2

Received by OCD: 9/7/2023 8:17:39 AM

.

7/12/2023

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4895 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-4895-1 SDG Number: 03D2024204

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Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4895 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Job Number: 890-4895-1 SDG Number: 03D2024204

List Source: Eurofins Midland

List Creation: 07/06/23 10:57 AM

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Received by OCD: 9/7/2023 8:17:39 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 8/21/2023 9:53:29 AM Revision 1

JOB DESCRIPTION

Windward Fed 2H/King Tut Fed CBT SDG NUMBER 03D2024204

JOB NUMBER

890-5009-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

AMER

Generated 8/21/2023 9:53:29 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Definitions/Glossary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Presumptive

Quality Control

Negative / Absent Positive / Present

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Minimum Detectable Activity (Radiochemistry)

DL

DLC

EDL

LOD LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC

RER RL

RPD

TEF

TEQ

TNTC

DL, RA, RE, IN

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VC	Α	5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	8
U	Indicates the analyte was analyzed for but not detected.	
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	4.5
Dil Fac	Dilution Factor	13

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

8/21/2023 (Rev. 1)

SDG: 03D2024204

Case Narrative

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Job ID: 890-5009-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5009-1

REVISION

The report being provided is a revision of the original report sent on 8/14/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID corrections.

Receipt

The samples were received on 7/28/2023 3:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH07 (890-5009-1), BH07A (890-5009-2), BH04 (890-5009-3), BH04A (890-5009-4), BH06 (890-5009-5), BH06A (890-5009-6), BH01 (890-5009-7), BH01A (890-5009-8), BH02 (890-5009-9), BH02A (890-5009-10), BH05 (890-5009-11), BH05A (890-5009-12), BH03 (890-5009-13) and BH03A (890-5009-14).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59420 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59420/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-59650 and analytical batch 880-60035 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH07 (890-5009-1), BH07A (890-5009-2), BH04 (890-5009-3), BH04A (890-5009-4), BH06 (890-5009-5), BH06A (890-5009-6), BH01 (890-5009-7), BH01A (890-5009-8), BH02 (890-5009-9), BH02A (890-5009-10), BH05 (890-5009-11), BH05A (890-5009-12), BH03 (890-5009-13), BH03A (890-5009-14), (CCV 880-60035/20), (CCV 880-60035/31), (CCV 880-60035/5), (LCS 880-59650/2-A), (LCSD 880-59650/3-A), (880-31363-A-1-C), (880-31363-A-1-D MS) and (880-31363-A-1-E MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59017 and analytical batch 880-59113 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or guality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH07

Date Collected: 07/28/23 11:40 Date Received: 07/28/23 15:36 Sample Depth: 5

Method: SW846 8021B - Volat Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 16:45	
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 16:45	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 16:45	
n-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/07/23 09:56	08/07/23 16:45	
p-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 16:45	
Kylenes, Total	<0.00401	U	0.00401	mg/Kg		08/07/23 09:56	08/07/23 16:45	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Bromofluorobenzene (Surr)	92		70 - 130			08/07/23 09:56	08/07/23 16:45	
1,4-Difluorobenzene (Surr)	97		70 - 130			08/07/23 09:56	08/07/23 16:45	
Method: TAL SOP Total BTEX								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/08/23 10:05	
Method: SW846 8015 NM - Die		Organics (Qualifier		11:4		Dranavad	Anolymod	
Analyte Total TPH	Kesult <50.2			Unit	D	Prepared	Analyzed 08/14/23 20:51	Dil Fa
	<50.2	0	50.2	mg/Kg			06/14/23 20:51	
Method: SW846 8015B NM - E		Organics Qualifier		Unit	D	Branarad	Applyzod	Dil Fa
Analyte	Kesult <50.2					Prepared 08/08/23 15:16	Analyzed 08/13/23 14:05	
Sasoline Range Organics GRO)-C6-C10				mg/Kg				
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 14:05	
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 14:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
-Chlorooctane	177	S1+	70 - 130			08/08/23 15:16	08/13/23 14:05	
p-Terphenyl	161	S1+	70 - 130			08/08/23 15:16	08/13/23 14:05	
Method: EPA 300.0 - Anions,			Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	13000		99.6	mg/Kg			08/02/23 19:38	2
lient Sample ID: BH07A						Lab Samp	le ID: 890-5	
ate Collected: 07/28/23 12:15							Matrix	: Soli
TO ROCOWOD' 11/178/73 15:36								
ample Depth: 10	ile Organic	Compour	ds (GC)					
ample Depth: 10 Method: SW846 8021B - Volat				Unit	п	Prepared	Analyzed	Dil Fa
ample Depth: 10 Method: SW846 8021B - Volat Analyte	Result	Qualifier		Unit	D	Prepared	Analyzed	
ample Depth: 10 Aethod: SW846 8021B - Volat Analyte Benzene	Result <0.00199	Qualifier U	RL 0.00199	mg/Kg	D	08/07/23 09:56	08/07/23 17:05	
ample Depth: 10 Method: SW846 8021B - Volat Analyte Benzene Toluene	Result <0.00199	Qualifier U U	RL 0.00199 0.00199	mg/Kg mg/Kg	D	08/07/23 09:56 08/07/23 09:56	08/07/23 17:05 08/07/23 17:05	
ate Received: 07/28/23 15:36 ample Depth: 10 Method: SW846 8021B - Volat Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.00199	Qualifier U U U	RL 0.00199	mg/Kg	<u>P</u>	08/07/23 09:56 08/07/23 09:56 08/07/23 09:56	08/07/23 17:05	Dil Fa

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-1 Matrix: Solid

Method: EPA 300.0 - Anions	, Ion Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000	99.6	mg/Kg			08/02/23 19:38	20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 17:05
Toluene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 17:05
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 17:05
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 17:05
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 17:05
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 17:05
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	98		70 - 130			08/07/23 09:56	08/07/23 17:05

Released to Imaging: 11/28/2023 11:06:37 AM

8/21/2023 (Rev. 1)

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1

1

Dil Fac

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH07A

Date Collected: 07/28/23 12:15 Date Received: 07/28/23 15:36

Sample Depth: 10

Method: SW846 8021B - Vola	tile Organic Compou	inds (GC) (Continued)	
Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed
1,4-Difluorobenzene (Surr)	98	70 - 130	08/07/23 09:56 08/07/23 17:05

4	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
-	Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/23 10:05	1
			•••••••••						
	Method: SW846 8015 NM - Dies	sel Range	Organics (I	DRO) (GC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

	Ser Runge	organico (E				
Analyte	Result	Qualifier	RL	Unit	D	Prepared
Total TPH	<49.6	U	49.6	mg/Kg		

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		08/08/23 15:16	08/13/23 14:27	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/08/23 15:16	08/13/23 14:27	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/08/23 15:16	08/13/23 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130			08/08/23 15:16	08/13/23 14:27	1
o-Terphenyl	151	S1+	70 - 130			08/08/23 15:16	08/13/23 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride589050.450.4mg/Kg08/02/23 19:4410

Client Sample ID: BH04 Date Collected: 07/28/23 12:40

Date Received: 07/28/23 15:36 Sample Depth: 5

	latile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/07/23 09:56	08/07/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/07/23 09:56	08/07/23 17:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130			08/07/23 09:56	08/07/23 17:26	1
_ Method: TAL SOP Total BTI	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/08/23 10:05	1
	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/14/23 20:51	1

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-2

08/14/23 20:51

Lab Sample ID: 890-5009-3

Matrix: Solid

Matrix: Solid

Dil Fac

1

1

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH04

Date Collected: 07/28/23 12:40 Date Received: 07/28/23 15:36

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.6		49.6	mg/Kg		08/08/23 15:16		
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/08/23 15:16	08/13/23 14:49	
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/08/23 15:16	08/13/23 14:49	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	160	S1+	70 - 130			08/08/23 15:16	08/13/23 14:49	
o-Terphenyl	144	S1+	70 - 130			08/08/23 15:16	08/13/23 14:49	
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3690		25.2	mg/Kg			08/02/23 19:50	
lient Sample ID: BH04A						Lab Samp	le ID: 890-5	5009-
ate Collected: 07/28/23 13:00							Matrix	: Soli
ate Received: 07/28/23 15:36								
ample Depth: 9								
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Benzene	< 0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 17:46	
Toluene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 17:46	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 17:46	
m-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		08/07/23 09:56	08/07/23 17:46	
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 17:46	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/07/23 09:56	08/07/23 17:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	87		70 - 130			08/07/23 09:56	08/07/23 17:46	
1,4-Difluorobenzene (Surr)	102		70 - 130			08/07/23 09:56	08/07/23 17:46	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/08/23 10:05	
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<50.2	U	50.2	mg/Kg			08/14/23 20:51	
Method: SW846 8015B NM - D	Niesel Range	Organics						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics (GRO)-C6-C10	<50.2		50.2	mg/Kg		-	08/13/23 15:12	
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 15:12	
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 15:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane		S1+	70 - 130				08/13/23 15:12	
			· · · •				· · · · · · · · · · · · -	

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08/08/23 15:16 08/13/23 15:12

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Job ID: 890-5009-1 SDG: 03D2024204

Released to Imaging: 11/28/2023 11:06:37 AM

o-Terphenyl

70 - 130

140 S1+

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH04A

Date Received: 07/28/23 15:36	
Sample Depth: 9	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6820	50.2	mg/Kg			08/02/23 19:57	10
Client Sample ID: BH06					Lab Sam	ole ID: 890-5	009-5
Date Collected: 07/28/23 09:00					-	Matrix	: Solid
Date Received: 07/28/23 15:36							
Sample Depth: 1							

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/07/23 09:56	08/07/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/07/23 09:56	08/07/23 18:07	1
1,4-Difluorobenzene (Surr)	105		70 - 130			08/07/23 09:56	08/07/23 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F		
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/08/23 10:05			

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/14/23 20:51	1
Method: SW846 8015B NM - D	iesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 15:57	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 15:57	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/08/23 15:16	08/13/23 15:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			08/08/23 15:16	08/13/23 15:57	1
o-Terphenyl	137	S1+	70 - 130			08/08/23 15:16	08/13/23 15:57	1

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Fac 1

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Job ID: 890-5009-1

SDG: 03D2024204

Matrix: Solid

Lab Sample ID: 890-5009-4

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH06A Date Collected: 07/28/23 09:10

Date Received: 07/28/23 15:36 Sample Depth: 3

Method: SW846 8021B - Volat Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200	mg/Kg		08/07/23 09:56	08/07/23 18:27	
Toluene	<0.00200		0.00200	mg/Kg		08/07/23 09:56	08/07/23 18:27	
Ethylbenzene	<0.00200		0.00200	mg/Kg		08/07/23 09:56	08/07/23 18:27	
n-Xylene & p-Xylene	<0.00200		0.00200	mg/Kg			08/07/23 18:27	
-Xylene	<0.00399		0.00399	mg/Kg			08/07/23 18:27	
Kylenes, Total	<0.00200		0.00200	mg/Kg			08/07/23 18:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	94		70 - 130			08/07/23 09:56	08/07/23 18:27	
,4-Difluorobenzene (Surr)	104		70 - 130				08/07/23 18:27	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
otal BTEX	<0.00399		0.00399	mg/Kg			08/08/23 10:05	
/lethod: SW846 8015 NM - Die	esel Rango (Organice /	DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.4		50.4	mg/Kg			08/14/23 20:51	
				55				
Method: SW846 8015B NM - D)iesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 16:27	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 16:27	
DII Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 16:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
-Chlorooctane	151		70 - 130			<u> </u>	08/13/23 16:27	
-Terphenyl		S1+	70 - 130				08/13/23 16:27	
Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	143		4.97	mg/Kg			08/02/23 20:21	
						Lah Samn		000
lient Sample ID: BH01 ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36							le ID: 890-5 Matrix	
ate Collected: 07/28/23 09:25								
ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36 ample Depth: 2 Method: SW846 8021B - Volat							Matrix	c: Soli
ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36 ample Depth: 2 Method: SW846 8021B - Volat malyte	Result	Qualifier	RL	Unit	D	Prepared	Matrix Analyzed	c: Soli
ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36 ample Depth: 2 Method: SW846 8021B - Volat analyte enzene	Result <0.00198	Qualifier	RL 0.00198	mg/Kg	<u>D</u>	Prepared 08/07/23 09:56	Matrix Analyzed 08/07/23 18:48	c: Soli
te Collected: 07/28/23 09:25 te Received: 07/28/23 15:36 imple Depth: 2 lethod: SW846 8021B - Volat nalyte enzene oluene	Result <0.00198 <0.00198	Qualifier U U	RL 0.00198 0.00198	mg/Kg mg/Kg	<u>D</u>	Prepared 08/07/23 09:56 08/07/23 09:56	Matrix Analyzed 08/07/23 18:48 08/07/23 18:48	c: Soli
ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36 ample Depth: 2 Method: SW846 8021B - Volat malyte lenzene oluene thylbenzene	Result <0.00198	Qualifier U U U	RL 0.00198 0.00198 0.00198 0.00198	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 08/07/23 09:56 08/07/23 09:56 08/07/23 09:56	Matrix Analyzed 08/07/23 18:48 08/07/23 18:48 08/07/23 18:48	c: Soli
ate Collected: 07/28/23 09:25 ate Received: 07/28/23 15:36 ample Depth: 2 Method: SW846 8021B - Volat	Result <0.00198 <0.00198	Qualifier U U U U	RL 0.00198 0.00198	mg/Kg mg/Kg	<u>D</u>	Prepared 08/07/23 09:56 08/07/23 09:56 08/07/23 09:56 08/07/23 09:56	Matrix Analyzed 08/07/23 18:48 08/07/23 18:48 08/07/23 18:48	

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene (Surr)9070 - 130

<0.00397 U

Lab Sample ID: 890-5009-6 Matrix: Solid

Job ID: 890-5009-1

SDG: 03D2024204

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Analyzed

1

1

Dil Fac

08/07/23 09:56 08/07/23 18:48

08/07/23 09:56 08/07/23 18:48

Prepared

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Released to Imaging: 11/28/2023 11:06:37 AM

Xylenes, Total

0.00397

mg/Kg

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH01

Sample Depth: 2

Date Collected: 07/28/23 09:25	
Date Received: 07/28/23 15:36	

Lab Sample ID: 890-5009-7

08/07/23 09:56 08/07/23 18:48

Prepared

Matrix: Solid

Analyzed

08/14/23 20:51

Lab Sample ID: 890-5009-8

Matrix: Solid

Dil Fac	-
1	8
Dil Fac	
1	
Dil Fac	
I	
1	

Method: SW846 8021B - Volati	le Organic	Compounds
Surrogate	%Recovery	Qualifier
1,4-Difluorobenzene (Surr)	100	

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/08/23 10:05	1
Method: SW846 8015 NM - Die	sel Range	Organics (I	DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Limits

70 - 130

(GC) (Continued)

Analyte **Result Qualifier** RL Unit Total TPH <50.4 U 50.4 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Unit D Analyte RL Prepared Analyzed I <50.4 U Gasoline Range Organics 50.4 08/08/23 15:16 08/13/23 16:49 mg/Kg (GRO)-C6-C10 08/08/23 15:16 08/13/23 16:49 **Diesel Range Organics (Over** <50.4 U 50.4 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.4 U 50.4 mg/Kg 08/08/23 15:16 08/13/23 16:49 %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 08/08/23 15:16 08/13/23 16:49 70 - 130 1-Chlorooctane 176 S1+ 1 158 S1+ o-Terphenyl 70 - 130 08/08/23 15:16 08/13/23 16:49 1 Method: EPA 300.0 Anions Ion Chromatography Salubla

Methou. LFA 300.0 - Amons, io	n Chromatography - 3	oluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9430	50.2	mg/Kg			08/02/23 20:27	10

Client Sample ID: BH01A Date Collected: 07/28/23 09:35 Date Received: 07/28/23 15:36

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			08/07/23 09:56	08/07/23 19:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/07/23 09:56	08/07/23 19:08	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/23 10:05	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			49.7					

08/14/23 20:51

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Job ID: 890-5009-1

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Dil Fac

SDG: 03D2024204

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH01A Date Collected: 07/28/23 09:35

Date Received: 07/28/23 15:36

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:12	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:12	
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	164	S1+	70 - 130			08/08/23 15:16	08/13/23 17:12	
o-Terphenyl	156	S1+	70 - 130			08/08/23 15:16	08/13/23 17:12	
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	369		5.02	mg/Kg			08/02/23 20:46	
lient Sample ID: BH02						Lab Samp	le ID: 890-5	009-9
ate Collected: 07/28/23 09:45							Matrix	: Solie
ate Received: 07/28/23 15:36 ample Depth: 2								
• •		•						
Method: SW846 8021B - Volat Analyte		Qualifier	as (GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201		0.00201	mg/Kg		08/07/23 09:56	08/07/23 19:29	
Toluene	< 0.00201		0.00201	mg/Kg		08/07/23 09:56	08/07/23 19:29	
Ethylbenzene	<0.00201		0.00201	mg/Kg		08/07/23 09:56	08/07/23 19:29	
n-Xylene & p-Xylene	<0.00201		0.00402	mg/Kg		08/07/23 09:56	08/07/23 19:29	
p-Xylene								
,	< 0.00201		0.00201	mg/Kg		08/07/23 09:56	08/07/23 19:29	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/07/23 09:50	08/07/23 19:29	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	94		70 - 130			08/07/23 09:56	08/07/23 19:29	
1,4-Difluorobenzene (Surr)	99		70 - 130			08/07/23 09:56	08/07/23 19:29	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/08/23 10:05	
Method: SW846 8015 NM - Die	esel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.7	U	49.7	mg/Kg			08/14/23 20:51	
Method: SW846 8015B NM - D	iesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:34	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:34	
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/08/23 15:16	08/13/23 17:34	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	156	S1+	70 - 130			08/08/23 15:16	08/13/23 17:34	

1

08/08/23 15:16 08/13/23 17:34

Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-8

Matrix: Solid

5

o-Terphenyl

70 - 130

145 S1+

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		Client	t Sample Res	sults				
ient: Ensolum oject/Site: Windward Fed 2H/Ki	na Tut Fed (СВТ					Job ID: 890- SDG: 03D2	
lient Sample ID: BH02 ate Collected: 07/28/23 09:45 ate Received: 07/28/23 15:36 ample Depth: 2	5	-				Lab Samp	le ID: 890-5	
Method: EPA 300.0 - Anions, Io				11-34		Durana d	Anaburad	
Analyte Chloride	13600	Qualifier	RL 	Unit mg/Kg	D	Prepared	Analyzed 08/02/23 20:52	Dil Fac
lient Sample ID: BH02A ate Collected: 07/28/23 10:05 ate Received: 07/28/23 15:36 ample Depth: 6					L	₋ab Sample	ə ID: 890-50	09-10 :: Solid
Vethod: SW846 8021B - Volati	le Organic	Compoun	ids (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		08/07/23 09:56		1
Toluene	<0.00200		0.00200	mg/Kg			08/07/23 21:19	1
Ethylbenzene	<0.00200		0.00200	mg/Kg			08/07/23 21:19	1
m-Xylene & p-Xylene	<0.00401		0.00401	mg/Kg			08/07/23 21:19	1
p-Xylene	<0.00200		0.00200	mg/Kg			08/07/23 21:19	1
Kylenes, Total	<0.00401	U	0.00401	mg/Kg		08/07/23 09:56	08/07/23 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			08/07/23 09:56		1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/07/23 09:56	08/07/23 21:19	1
Method: TAL SOP Total BTEX								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/08/23 10:05	1
Method: SW846 8015 NM - Die		-						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/14/23 20:51	1
Method: SW846 8015B NM - D	iesel Range	• Organics	s (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/08/23 15:16	08/13/23 17:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/08/23 15:16	08/13/23 17:56	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/08/23 15:16	08/13/23 17:56	1
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1+	70 - 130				08/13/23 17:56	1
o-Terphenyl	129		70 - 130			08/08/23 15:16	08/13/23 17:56	1
Method: EPA 300.0 - Anions, lo	on Chroma	tography	- Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			5.01					

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Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH05

1,4-Difluorobenzene (Surr)

Date Collected: 07/28/23 10:15 Date Received: 07/28/23 15:36 Sample

Sample Depth: 2	50								
Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)						5
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	< 0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	
Toluene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	9
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/07/23 09:56	08/07/23 21:40	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	9
4-Bromofluorobenzene (Surr)	<u>94</u>		70 - 130			08/07/23 09:56	08/07/23 21:40	1	
	• ·								

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/23 10:05	1	

70 - 130

101

Method: SW846 8015 NM - D	Diesel Range Organics	(DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.3 U	50.3	mg/Kg			08/14/23 20:51	1	

Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/08/23 15:16	08/13/23 18:19	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/08/23 15:16	08/13/23 18:19	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/08/23 15:16	08/13/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			08/08/23 15:16	08/13/23 18:19	1
o-Terphenyl	127		70 - 130			08/08/23 15:16	08/13/23 18:19	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11400		101	mg/Kg			08/02/23 21:04	20

Client Sample ID: BH05A Date Collected: 07/28/23 10:40 Date Received: 07/28/23 15:36 Sample Depth: 7

Method: SW846 8021B - Vo	olatile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/07/23 09:56	08/07/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			08/07/23 09:56	08/07/23 22:00	1

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Matrix: Solid

Job ID: 890-5009-1 SDG: 03D2024204

08/07/23 09:56 08/07/23 21:40

Lab Sample ID: 890-5009-12

Matrix: Solid

1

Lab Sample ID: 890-5009-11

Released to Imaging: 11/28/2023 11:06:37 AM

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH05A

Date Collected: 07/28/23 10:40 Date Received: 07/28/23 15:36

Sample Depth: 7

Method: SW846 80	21B - Volatile Organic C	ompounds (GC) (C	ontinued)	
Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed
1,4-Difluorobenzene (Sur	r) 95	70 - 130	08/07/23 09:56	08/07/23 22:00

Method: TAL SOP Total I					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/08/23 10:05	1
Method: SW846 8015 NM	I - Diesel Range (Organics (DRO) (GC)					

Analyte	-	Qualifier	RL	Unit	D
Total TPH	<50.4	U	50.4	mg/Kg	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 18:41	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 18:41	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/08/23 15:16	08/13/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			08/08/23 15:16	08/13/23 18:41	1
o-Terphenyl	129		70 - 130			08/08/23 15:16	08/13/23 18:41	1

Method: EPA 300.0 - Anions, I	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	342	4.99	mg/Kg			08/02/23 21:10	1

Client Sample ID: BH03

Date Collected: 07/28/23 10:50 Date Received: 07/28/23 15:36 Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/07/23 09:56	08/07/23 22:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			08/07/23 09:56	08/07/23 22:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130			08/07/23 09:56	08/07/23 22:21	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			08/08/23 10:05	1
- Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/14/23 20:51	1

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-12

Analyzed

08/14/23 20:51

Lab Sample ID: 890-5009-13

Matrix: Solid

Prepared

Matrix: Solid

5

Dil Fac

Dil Fac

1

1

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH03

Date Collected: 07/28/23 10:50 Date Received: 07/28/23 15:36

Sample Depth: 1

Sample Depth: 1								
Method: SW846 8015B NM - I	Diesel Range	• Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/08/23 15:16		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/08/23 15:16	08/13/23 19:04	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/08/23 15:16	08/13/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			08/08/23 15:16	08/13/23 19:04	1
o-Terphenyl	132	S1+	70 - 130			08/08/23 15:16	08/13/23 19:04	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9050		49.6	mg/Kg			08/02/23 21:16	10
Client Sample ID: BH03A					L	ab Sample	e ID: 890-50	09-14
Date Collected: 07/28/23 11:50							Matrix	: Solid
Date Received: 07/28/23 15:36								
Sample Depth: 7								
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
Xylenes, Total	<0.00403		0.00403	mg/Kg		08/07/23 09:56	08/07/23 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			08/07/23 09:56	08/07/23 22:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/07/23 22:41	1
Method: TAL SOP Total BTEX	(- Total BTE	X Calcula	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/08/23 10:05	1
Method: SW846 8015 NM - Di	esel Range (Organics ((DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			08/14/23 20:51	1
)iesel Range	Organice						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg		<u> </u>	08/13/23 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/08/23 15:16	08/13/23 19:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/08/23 15:16	08/13/23 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		<u>S1+</u>	70 - 130				08/13/23 19:27	1
o-Terphenyl		S1+	70 - 130				08/13/23 19:27	1
		2.						'

5

Job ID: 890-5009-1 SDG: 03D2024204

Matrix: Solid

Lab Sample ID: 890-5009-13

Job ID: 890-5009-1

SDG: 03D2024204

Matrix: Solid

Lab Sample ID: 890-5009-14

Client Sample Results

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH03A

Date Collected: 07/28/23 11:50 Date Received: 07/28/23 15:36 Sample Depth: 7

Method: EPA 300.0 - Anions, Io	on Chromat	ography -	Soluble						5
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	589		4.95	mg/Kg			08/02/23 21:23	1	6

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Surrogate Summary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Р	ercent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5005-A-1-D MS	Matrix Spike	94	110	
890-5005-A-1-E MSD	Matrix Spike Duplicate	103	96	
890-5009-1	BH07	92	97	
890-5009-2	BH07A	98	98	
890-5009-3	BH04	90	99	
890-5009-4	BH04A	87	102	
890-5009-5	BH06	98	105	
890-5009-6	BH06A	94	104	
890-5009-7	BH01	90	100	
890-5009-8	BH01A	89	104	
890-5009-9	BH02	94	99	
890-5009-10	BH02A	84	94	
890-5009-11	BH05	94	101	
890-5009-12	BH05A	99	95	
890-5009-13	BH03	92	101	
890-5009-14	BH03A	82	105	
LCS 880-59470/1-A	Lab Control Sample	94	93	
LCSD 880-59470/2-A	Lab Control Sample Dup	93	96	
MB 880-59470/5-A	Method Blank	109	122	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-31363-A-1-D MS Matrix Spike 122 162 S1+ 880-31363-A-1-E MSD Matrix Spike Duplicate 158 S1+ 121 890-5009-1 BH07 177 S1+ 161 S1+ 890-5009-2 BH07A 164 S1+ 151 S1+ BH04 144 S1+ 890-5009-3 160 S1+ 890-5009-4 BH04A 154 S1+ 140 S1+ 890-5009-5 BH06 150 S1+ 137 S1+ 890-5009-6 BH06A 151 S1+ 134 S1+ 890-5009-7 158 S1+ BH01 176 S1+ 890-5009-8 BH01A 164 S1+ 156 S1+ 890-5009-9 BH02 156 S1+ 145 S1+ 890-5009-10 BH02A 144 S1+ 129 890-5009-11 BH05 140 S1+ 127 890-5009-12 BH05A 144 S1+ 129 890-5009-13 BH03 146 S1+ 132 S1+ 890-5009-14 BH03A 174 S1+ 151 S1+ LCS 880-59650/2-A Lab Control Sample 160 S1+ 146 S1+ LCSD 880-59650/3-A Lab Control Sample Dup 163 S1+ 144 S1+ MB 880-59650/1-A Method Blank 150 S1+ 163 S1+ Surrogate Legend

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Job ID: 890-5009-1 SDG: 03D2024204

Prep Type: Total/NA

Prep Type: Total/NA

-

Surrogate Summary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT 1CO = 1-Chlorooctane OTPH = o-Terphenyl Job ID: 890-5009-1 SDG: 03D2024204

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Lab Sample ID: MB 880-59470/5-A

Matrix: Solid

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 59420							Prep Batch:	59470
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/07/23 09:56	08/07/23 15:55	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/07/23 09:56	08/07/23 15:55	1
1,4-Difluorobenzene (Surr)	122		70 - 130			08/07/23 09:56	08/07/23 15:55	1

Lab Sample ID: LCS 880-59470/1-A Matrix: Solid Analysis Batch: 59420

· · · · · · , · · · · · · · · · · · · · · · · · · ·	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1112		mg/Kg		111	70 - 130
Toluene	0.100	0.1109		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2165		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-59470/2-A Matrix: Solid

Analysis Batch: 59420

Analysis Batch: 59420							Prep Batch: 5		59470
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1147		mg/Kg		115	70 - 130	3	35
Toluene	0.100	0.1102		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.09617		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1966		mg/Kg		98	70 - 130	10	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-5005-A-1-D MS Matrix: Solid

	Analysis Batch: 59420										pe: Total/NA Batch: 59470
		Sample	Sample	Spike	MS	MS				%Rec	
A	nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
B	enzene	<0.00202	U	0.0996	0.1203		mg/Kg		121	70 - 130	
Т	oluene	<0.00202	U	0.0996	0.1193		mg/Kg		120	70 - 130	

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59470

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5005 Matrix: Solid	5-A-1-D MS						CI	lient Sa	mple ID: Matrix Spike Prep Type: Total/NA	
Analysis Batch: 59420									Prep Batch: 59470	
-	Sample	Sample	Spike	MS	MS				%Rec	5
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	< 0.00202	U	0.0996	0.1106		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	< 0.00403	U	0.199	0.2391		mg/Kg		120	70 - 130	
o-Xylene	<0.00202	U	0.0996	0.08298		mg/Kg		83	70 - 130	7
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							8
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	110		70 - 130							9
	5-A-1-E MSD					Client S	Samp	le ID: N	Aatrix Spike Duplicate	40
Matrix: Solid									Prep Type: Total/NA	
Analysis Batch: 59420									Prep Batch: 59470	
	Sample	Sample	Spike	MSD	MSD				%Rec RPD	

	Oampie	Cample	Opike	NICD	MOD				/01/00			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	< 0.00202	U	0.100	0.1153		mg/Kg		115	70 - 130	4	35	
Toluene	<0.00202	U	0.100	0.1093		mg/Kg		109	70 - 130	9	35	i
Ethylbenzene	<0.00202	U	0.100	0.1084		mg/Kg		108	70 - 130	2	35	
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2306		mg/Kg		115	70 - 130	4	35	i
o-Xylene	<0.00202	U	0.100	0.1077		mg/Kg		108	70 - 130	26	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									

70 - 130

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

103

96

Lab Sample ID: MB 880-59650/1-A Matrix: Solid Analysis Batch: 60035

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/08/23 15:15	08/13/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/08/23 15:15	08/13/23 08:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/08/23 15:15	08/13/23 08:29	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	163	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCS 880-59650/2-A Matrix: Solid Analysis Batch: 60035

Analysis Datch. 00055							Fiep	Salch. 59050
-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1121		mg/Kg		112	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1125		mg/Kg		113	70 - 130	
C10-C28)								

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Job ID: 890-5009-1 SDG: 03D2024204

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 59650

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 59650

08/08/23 15:15 08/13/23 08:29

08/08/23 15:15 08/13/23 08:29

Analyzed

Dil Fac

1

1

Prepared

QC Sample Results

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Lab Sample ID: LCS 880-59650/2-A

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

			-	03D202		
)						
Client	Sar	nple ID	: Lab Con			
			Prep Ty Prep B	pe: lot atch: {		4
						5
						6
nt Sam	nlo	ID: I ah	Control	Sample	Dun	7
u ou i		10. 24	Prep Ty		al/NA	8
	_	~ -	%Rec		RPD	9
n it g/Kg	<u>D</u>	%Rec 114	Limits	2	Limit 20	
				_		
g/Kg		113	70 - 130	0	20	
						13
	CI	ient Sa	mple ID: I			

Lab Sample ID. LCS 660-	-33030/2-A					Cilei	it Sa	inble in			
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 60035									Prep E	Batch: 5	59650
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	146	S1+	70 - 130								
Lab Sample ID: LCSD 88	0-59650/3-4					lient Sa	mnle	ID [.] I at	o Control	Sample	
Matrix: Solid							mpio	10. Lui	Prep Ty		
Analysis Batch: 60035										Batch: 5	
Analysis Batch. 00000			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1140		mg/Kg		114	70 - 130	2	20
(GRO)-C6-C10						0 0					
Diesel Range Organics (Over			1000	1126		mg/Kg		113	70 - 130	0	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	163	S1+	70 - 130								
o-Terphenyl	144	S1+	70 - 130								
Lab Sample ID: 880-3136	3-A-1-D MS						С	lient Sa	mple ID:	Matrix \$	Spike
Matrix: Solid									· Prep Ty		
Analysis Batch: 60035										Batch: 5	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.2	U	998	1036		mg/Kg		101	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	292		998	1380		mg/Kg		109	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	162	S1+	70 - 130								

Lab Sample ID: 880-31363-A-1-E MSD **Matrix: Solid** Analysis Batch: 60035

o-Terphenyl

Analysis Batch: 60035									Prep E	Batch: {	59650
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	998.7		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	292		998	1348		mg/Kg		106	70 - 130	2	20
	MED	MOD									

70 - 130

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	158	S1+	70 - 130
o-Terphenyl	121		70 - 130

122

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

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QC Sample Results

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Job ID: 890-5009-1

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5901 Matrix: Solid	1// 1-A								C	, IIE	nt Sam	ple ID: Mo Prep Ty		
Analysis Batch: 59113													-	
-		MB M	В											
Analyte	Re	sult Q	ualifier		RL		Unit		D	Pr	epared	Analyz	ed	Dil Fac
Chloride		5.00 U			5.00		mg/K	g				08/02/23	18:06	1
Lab Sample ID: LCS 880-590)17/2-A							Cli	ent S	San	nple ID	: Lab Con	trol Sa	mple
Matrix: Solid												Prep Ty		
Analysis Batch: 59113														
				Spike		LCS	LCS					%Rec		
Analyte				Added	R	lesult	Qualifier	Unit		D	%Rec	Limits		
Chloride				250	:	242.8		mg/Kg		_	97	90 - 110		
Lab Sample ID: LCSD 880-59	9017/3-A						c	lient S	amp	ole	ID: Lab	Control	Sample	e Dup
Matrix: Solid												Prep Ty		_
Analysis Batch: 59113														
				Spike	L	CSD	LCSD					%Rec		RPD
Analyte				Added	R	lesult	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250	:	270.2		mg/Kg		_	108	90 - 110	11	20
_ Lab Sample ID: 890-5009-5 N	I S										CI	ient Samp	ole ID:	BH06
												Prep Ty		
Matrix: Solid														JUDIC
Matrix: Solid													•	Jubic
	Sample	Sample	9	Spike		MS	MS					%Rec		
Matrix: Solid	Sample Result	-		Spike Added	R		MS Qualifier	Unit		D	%Rec			
Matrix: Solid Analysis Batch: 59113	-	Qualifi		•			Qualifier	Unit mg/Kg		D	%Rec 89	%Rec		
Matrix: Solid Analysis Batch: 59113 Analyte Chloride	Result 434	Qualifi		Added		lesult	Qualifier			<u>D</u>	89	%Rec Limits 90 - 110		
Matrix: Solid Analysis Batch: 59113 Analyte Chloride Lab Sample ID: 890-5009-5 M	Result 434	Qualifi		Added		lesult	Qualifier			D	89	%Rec Limits 90 - 110)le ID:	 BH06
Matrix: Solid Analysis Batch: 59113 Analyte Chloride Lab Sample ID: 890-5009-5 M Matrix: Solid	Result 434	Qualifi		Added		lesult	Qualifier			D	89	%Rec Limits 90 - 110)le ID:	 BH06
Matrix: Solid Analysis Batch: 59113 Analyte Chloride Lab Sample ID: 890-5009-5 M	Result 434	Qualifie F1	er	Added	(tesult 657.1	Qualifier			D	89	%Rec Limits 90 - 110)le ID:	BH06 bluble
Matrix: Solid Analysis Batch: 59113 Analyte Chloride Lab Sample ID: 890-5009-5 M Matrix: Solid	Result 434	Qualifie F1	er	Added 250		MSD	Qualifier F1			D	89	%Rec Limits 90 - 110 ient Samp Prep Ty)le ID:	 BH06

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Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

GC VOA

Analysis Batch: 59420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-5009-1	BH07	Total/NA	Solid	8021B	59470	-
890-5009-2	BH07A	Total/NA	Solid	8021B	59470	5
890-5009-3	BH04	Total/NA	Solid	8021B	59470	
890-5009-4	BH04A	Total/NA	Solid	8021B	59470	
890-5009-5	BH06	Total/NA	Solid	8021B	59470	
890-5009-6	BH06A	Total/NA	Solid	8021B	59470	
890-5009-7	BH01	Total/NA	Solid	8021B	59470	
890-5009-8	BH01A	Total/NA	Solid	8021B	59470	8
890-5009-9	BH02	Total/NA	Solid	8021B	59470	
890-5009-10	BH02A	Total/NA	Solid	8021B	59470	9
890-5009-11	BH05	Total/NA	Solid	8021B	59470	
890-5009-12	BH05A	Total/NA	Solid	8021B	59470	
890-5009-13	BH03	Total/NA	Solid	8021B	59470	
890-5009-14	BH03A	Total/NA	Solid	8021B	59470	
MB 880-59470/5-A	Method Blank	Total/NA	Solid	8021B	59470	
LCS 880-59470/1-A	Lab Control Sample	Total/NA	Solid	8021B	59470	
LCSD 880-59470/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59470	
890-5005-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	59470	40
890-5005-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59470	13
Drew Detak: 50470						

Prep Batch: 59470

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5009-1	BH07	Total/NA	Solid	5035	
890-5009-2	BH07A	Total/NA	Solid	5035	
890-5009-3	BH04	Total/NA	Solid	5035	
890-5009-4	BH04A	Total/NA	Solid	5035	
890-5009-5	BH06	Total/NA	Solid	5035	
890-5009-6	BH06A	Total/NA	Solid	5035	
890-5009-7	BH01	Total/NA	Solid	5035	
890-5009-8	BH01A	Total/NA	Solid	5035	
890-5009-9	BH02	Total/NA	Solid	5035	
890-5009-10	BH02A	Total/NA	Solid	5035	
890-5009-11	BH05	Total/NA	Solid	5035	
890-5009-12	BH05A	Total/NA	Solid	5035	
890-5009-13	BH03	Total/NA	Solid	5035	
890-5009-14	BH03A	Total/NA	Solid	5035	
MB 880-59470/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5005-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5005-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 59616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-1	BH07	Total/NA	Solid	Total BTEX	
890-5009-2	BH07A	Total/NA	Solid	Total BTEX	
890-5009-3	BH04	Total/NA	Solid	Total BTEX	
890-5009-4	BH04A	Total/NA	Solid	Total BTEX	
890-5009-5	BH06	Total/NA	Solid	Total BTEX	
890-5009-6	BH06A	Total/NA	Solid	Total BTEX	
890-5009-7	BH01	Total/NA	Solid	Total BTEX	

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Job ID: 890-5009-1 SDG: 03D2024204

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

GC VOA (Continued)

Analysis Batch: 59616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-8	BH01A	Total/NA	Solid	Total BTEX	
890-5009-9	BH02	Total/NA	Solid	Total BTEX	
890-5009-10	BH02A	Total/NA	Solid	Total BTEX	
890-5009-11	BH05	Total/NA	Solid	Total BTEX	
890-5009-12	BH05A	Total/NA	Solid	Total BTEX	
890-5009-13	BH03	Total/NA	Solid	Total BTEX	
890-5009-14	BH03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-1	BH07	Total/NA	Solid	8015NM Prep	
890-5009-2	BH07A	Total/NA	Solid	8015NM Prep	
890-5009-3	BH04	Total/NA	Solid	8015NM Prep	
890-5009-4	BH04A	Total/NA	Solid	8015NM Prep	
890-5009-5	BH06	Total/NA	Solid	8015NM Prep	
890-5009-6	BH06A	Total/NA	Solid	8015NM Prep	
890-5009-7	BH01	Total/NA	Solid	8015NM Prep	
890-5009-8	BH01A	Total/NA	Solid	8015NM Prep	
890-5009-9	BH02	Total/NA	Solid	8015NM Prep	
890-5009-10	BH02A	Total/NA	Solid	8015NM Prep	
890-5009-11	BH05	Total/NA	Solid	8015NM Prep	
890-5009-12	BH05A	Total/NA	Solid	8015NM Prep	
890-5009-13	BH03	Total/NA	Solid	8015NM Prep	
890-5009-14	BH03A	Total/NA	Solid	8015NM Prep	
MB 880-59650/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59650/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31363-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31363-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-1	BH07	Total/NA	Solid	8015B NM	59650
890-5009-2	BH07A	Total/NA	Solid	8015B NM	59650
890-5009-3	BH04	Total/NA	Solid	8015B NM	59650
890-5009-4	BH04A	Total/NA	Solid	8015B NM	59650
890-5009-5	BH06	Total/NA	Solid	8015B NM	59650
890-5009-6	BH06A	Total/NA	Solid	8015B NM	59650
890-5009-7	BH01	Total/NA	Solid	8015B NM	59650
890-5009-8	BH01A	Total/NA	Solid	8015B NM	59650
890-5009-9	BH02	Total/NA	Solid	8015B NM	59650
890-5009-10	BH02A	Total/NA	Solid	8015B NM	59650
890-5009-11	BH05	Total/NA	Solid	8015B NM	59650
890-5009-12	BH05A	Total/NA	Solid	8015B NM	59650
890-5009-13	BH03	Total/NA	Solid	8015B NM	59650
890-5009-14	BH03A	Total/NA	Solid	8015B NM	59650
MB 880-59650/1-A	Method Blank	Total/NA	Solid	8015B NM	59650
LCS 880-59650/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59650
LCSD 880-59650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59650

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Job ID: 890-5009-1

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SDG: 03D2024204

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

GC Semi VOA (Continued)

Analysis Batch: 60035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31363-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59650
880-31363-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59650

Analysis Batch: 60208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-1	BH07	Total/NA	Solid	8015 NM	
890-5009-2	BH07A	Total/NA	Solid	8015 NM	
890-5009-3	BH04	Total/NA	Solid	8015 NM	
890-5009-4	BH04A	Total/NA	Solid	8015 NM	
890-5009-5	BH06	Total/NA	Solid	8015 NM	
890-5009-6	BH06A	Total/NA	Solid	8015 NM	
890-5009-7	BH01	Total/NA	Solid	8015 NM	
890-5009-8	BH01A	Total/NA	Solid	8015 NM	
890-5009-9	BH02	Total/NA	Solid	8015 NM	
890-5009-10	BH02A	Total/NA	Solid	8015 NM	
890-5009-11	BH05	Total/NA	Solid	8015 NM	
890-5009-12	BH05A	Total/NA	Solid	8015 NM	
890-5009-13	BH03	Total/NA	Solid	8015 NM	
890-5009-14	BH03A	Total/NA	Solid	8015 NM	

Leach Batch: 59017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-1	BH07	Soluble	Solid	DI Leach	
890-5009-2	BH07A	Soluble	Solid	DI Leach	
890-5009-3	BH04	Soluble	Solid	DI Leach	
890-5009-4	BH04A	Soluble	Solid	DI Leach	
890-5009-5	BH06	Soluble	Solid	DI Leach	
890-5009-6	BH06A	Soluble	Solid	DI Leach	
890-5009-7	BH01	Soluble	Solid	DI Leach	
890-5009-8	BH01A	Soluble	Solid	DI Leach	
890-5009-9	BH02	Soluble	Solid	DI Leach	
890-5009-10	BH02A	Soluble	Solid	DI Leach	
890-5009-11	BH05	Soluble	Solid	DI Leach	
890-5009-12	BH05A	Soluble	Solid	DI Leach	
890-5009-13	BH03	Soluble	Solid	DI Leach	
890-5009-14	BH03A	Soluble	Solid	DI Leach	
MB 880-59017/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59017/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59017/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5009-5 MS	BH06	Soluble	Solid	DI Leach	
890-5009-5 MSD	BH06	Soluble	Solid	DI Leach	

Analysis Batch: 59113

Lab Sample ID 890-5009-1	Client Sample ID BH07	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 59017
890-5009-2	BH07A	Soluble	Solid	300.0	59017
890-5009-3	BH04	Soluble	Solid	300.0	59017
890-5009-4	BH04A	Soluble	Solid	300.0	59017
890-5009-5	BH06	Soluble	Solid	300.0	59017

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Job ID: 890-5009-1 SDG: 03D2024204

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

HPLC/IC (Continued)

Analysis Batch: 59113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5009-6	BH06A	Soluble	Solid	300.0	59017
890-5009-7	BH01	Soluble	Solid	300.0	59017
890-5009-8	BH01A	Soluble	Solid	300.0	59017
890-5009-9	BH02	Soluble	Solid	300.0	59017
890-5009-10	BH02A	Soluble	Solid	300.0	59017
890-5009-11	BH05	Soluble	Solid	300.0	59017
890-5009-12	BH05A	Soluble	Solid	300.0	59017
890-5009-13	BH03	Soluble	Solid	300.0	59017
890-5009-14	BH03A	Soluble	Solid	300.0	59017
MB 880-59017/1-A	Method Blank	Soluble	Solid	300.0	59017
LCS 880-59017/2-A	Lab Control Sample	Soluble	Solid	300.0	59017
LCSD 880-59017/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59017
890-5009-5 MS	BH06	Soluble	Solid	300.0	59017
890-5009-5 MSD	BH06	Soluble	Solid	300.0	59017

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Released to Imaging: 11/28/2023 11:06:37 AM

Job ID: 890-5009-1 SDG: 03D2024204

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH07 Date Collected: 07/28/23 11:40 Date Received: 07/28/23 15:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 16:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 14:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	59113	08/02/23 19:38	СН	EET MID

Client Sample ID: BH07A Date Collected: 07/28/23 12:15

Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 17:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59650	08/08/23 15:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 14:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	59113	08/02/23 19:44	СН	EET MID

Client Sample ID: BH04 Date Collected: 07/28/23 12:40 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	59470	08/07/23 09:56	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 17:26	SM	EET MIC
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	59113	08/02/23 19:50	СН	EET MID

Client Sample ID: BH04A Date Collected: 07/28/23 13:00 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 17:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-1

Lab Sample ID: 890-5009-2

Lab Sample ID: 890-5009-3

Lab Sample ID: 890-5009-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

8/21/2023 (Rev. 1)

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH04A Date Collected: 07/28/23 13:00 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	59113	08/02/23 19:57	СН	EET MID

Client Sample ID: BH06 Date Collected: 07/28/23 09:00 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 18:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59650	08/08/23 15:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 15:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 20:03	CH	EET MID

Client Sample ID: BH06A

Date Collected: 07/28/23 09:10 Date Received: 07/28/23 15:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 18:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 16:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 20:21	СН	EET MID

Client Sample ID: BH01 Date Collected: 07/28/23 09:25 Date Received: 07/28/23 15:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 18:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59650	08/08/23 15:16		EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 16:49	SM	EET MID

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-4

Lab Sample ID: 890-5009-5

Lab Sample ID: 890-5009-6

Lab Sample ID: 890-5009-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Client Sample ID: BH01 Date Collected: 07/28/23 09:25 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	59113	08/02/23 20:27	СН	EET MID

Client Sample ID: BH01A Date Collected: 07/28/23 09:35 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 19:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 20:46	СН	EET MID

Client Sample ID: BH02 Date Collected: 07/28/23 09:45 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 19:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	59113	08/02/23 20:52	CH	EET MID

Client Sample ID: BH02A Date Collected: 07/28/23 10:05 Date Received: 07/28/23 15:36

Lab Sample ID: 890-5009-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 21:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 20:58	CH	EET MID

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Job ID: 890-5009-1 SDG: 03D2024204

Lab Sample ID: 890-5009-7

Matrix: Solid

 Prepared
 Lab
 5

 08/01/23 13:16
 KS
 EET MID
 6

 08/02/23 20:27
 CH
 EET MID
 6

 Lab Sample ID: 890-5009-8 Matrix: Solid
 7
 6

 Prepared
 Matrix: Solid
 8

 08/07/23 09:56
 EL
 EET MID

 08/07/23 19:08
 SM
 EET MID

 08/08/23 10:05
 SM
 EET MID

 08/08/23 15:16
 TKC
 EET MID
 Client: Ensolum

Lab Chronicle

Job ID: 890-5009-1 SDG: 03D2024204

Matrix: Solid

Lab Sample ID: 890-5009-11

Client Sample ID: BH05 Date Collected: 07/28/23 10:15 Date Received: 07/28/23 15:36

Project/Site: Windward Fed 2H/King Tut Fed CBT

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 21:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59650	08/08/23 15:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	59113	08/02/23 21:04	СН	EET MID

Lab Sample ID: 890-5009-12 Matrix: Solid

Lab Sample ID: 890-5009-13

Lab Sample ID: 890-5009-14

Matrix: Solid

x: Solid

9

Date Collected: 07/28/23 10:40 Date Received: 07/28/23 15:36

Client Sample ID: BH05A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 22:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59650	08/08/23 15:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 21:10	СН	EET MID

Client Sample ID: BH03 Date Collected: 07/28/23 10:50 Date Received: 07/28/23 15:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59420	08/07/23 22:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59650	08/08/23 15:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	59113	08/02/23 21:16	СН	EET MID

Client Sample ID: BH03A Date Collected: 07/28/23 11:50 Date Received: 07/28/23 15:36

	В	atch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep	Type Ty	ype	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/I	NA P	rep	5035			4.96 g	5 mL	59470	08/07/23 09:56	EL	EET MID
Total/I	NA A	nalysis	8021B		1	5 mL	5 mL	59420	08/07/23 22:41	SM	EET MID
Total/I	NA A	nalysis	Total BTEX		1			59616	08/08/23 10:05	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 11/28/2023 11:06:37 AM

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT Job ID: 890-5009-1 SDG: 03D2024204

Client Sample ID: BH03A Date Collected: 07/28/23 11:50 Date Received: 07/28/23 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60208	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59650	08/08/23 15:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/13/23 19:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59017	08/01/23 13:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59113	08/02/23 21:23	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Lab Sample ID: 890-5009-14 Matrix: Solid

5 6

7 8 9

Accreditation/Certification Summary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT Job ID: 890-5009-1 SDG: 03D2024204

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-23-26	06-30-24
the agency does not o	offer certification.		ot certified by the governing authority.	This list may include analytes for whic
0,	•	ort, but the laboratory is n <u>Matrix</u>	ot certified by the governing authorityAnalyte	This list may include analytes for whic
the agency does not o	offer certification.			This list may include analytes for whic

Eurofins Carlsbad

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10
Method Summary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT Job ID: 890-5009-1 SDG: 03D2024204

Method	Method Description	Protocol	Laboratory					
8021B	Volatile Organic Compounds (GC)	SW846	EET MID					
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID					
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	E				
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID					
300.0	Anions, Ion Chromatography	EPA	EET MID					
5035	Closed System Purge and Trap	SW846	EET MID					
8015NM Prep	Microextraction	SW846	EET MID					
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID					
Protocol Ref	erences:			8				
ASTM = A	STM International							
EPA = US	Environmental Protection Agency			9				
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.								
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure							

Protocol References:

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum Project/Site: Windward Fed 2H/King Tut Fed CBT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5009-1	BH07	Solid	07/28/23 11:40	07/28/23 15:36	5
890-5009-2	BH07A	Solid	07/28/23 12:15	07/28/23 15:36	10
890-5009-3	BH04	Solid	07/28/23 12:40	07/28/23 15:36	5
890-5009-4	BH04A	Solid	07/28/23 13:00	07/28/23 15:36	9
890-5009-5	BH06	Solid	07/28/23 09:00	07/28/23 15:36	1
890-5009-6	BH06A	Solid	07/28/23 09:10	07/28/23 15:36	3
890-5009-7	BH01	Solid	07/28/23 09:25	07/28/23 15:36	2
890-5009-8	BH01A	Solid	07/28/23 09:35	07/28/23 15:36	4
890-5009-9	BH02	Solid	07/28/23 09:45	07/28/23 15:36	2
890-5009-10	BH02A	Solid	07/28/23 10:05	07/28/23 15:36	6
890-5009-11	BH05	Solid	07/28/23 10:15	07/28/23 15:36	2
890-5009-12	BH05A	Solid	07/28/23 10:40	07/28/23 15:36	7
890-5009-13	BH03	Solid	07/28/23 10:50	07/28/23 15:36	1
890-5009-14	BH03A	Solid	07/28/23 11:50	07/28/23 15:36	7

Eurofins Carlsbad 8/21/2023 (Rev. 1) Project Manager:

Company Name:

City, State ZIP:

Address:

Phone:

3

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

601 N Marienfeld St Suite 400

Hadlie Green

Ensolum, LLC

Midland, TX 79701

Bill to: (if different)

Company Name:

City, State ZIP:

Email: hgreen@ensolum.com

Address:

8/21/2023 (Rev. 1)

of 7

Project Name:	Windward Fed	2H/King	Tut Fed CBT	Turn	Around								ANALYS	IS REC	UEST					Pre	serva	tive Codes
Project Number:		202420		Routine	Rush		Pres. Code													None: NO)	DI Water: H
Project Location:	32.19	5,-103.7	194	Due Date:																Cool: Co	ol	MeOH: Me
Sampler's Name: PO #:	and the second se	Van Pa		TAT starts th the lab, if rec			2					ł						HCL: HC HNO ₃ : HN H ₂ S0 ₄ : H ₂ NaOH: Na				
SAMPLE RECE	PT Temp	Blank:	Yes No	Wet Ice:	(Yes)	No	meters	6										State :	2	H₃PO₄: H		
Samples Received I	ntact: (Yes)	No	Thermometer	ID: TI	NM	007	Paran	300										Viel	3.4	NaHSO ₄ :		
Cooler Custody Sea	s: Yes No	N/A	Correction Fa	ictor:	-0.	. 2	Pa	PA								f Min Min				Na ₂ S ₂ O ₃		
Sample Custody Sea	als: Yes No	NA	Temperature	Reading:	1.4	}		S (E		=		· .	890-500	9 Chain		itody			-	Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Total Containers:			Corrected Te	mperature:	1-2	2		IDE	015)	8021		1		1	1							
Sample Ider	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)										Sa	Sample Comments	
BHO	7E	Soil	7/28/2023	1140	5	Comp	1	x	x	x												
BH0	7J	Soil	7/28/2023	1215	10	Comp	1	x	x	x												
BH04	4E	Soil	7/28/2023	1240	5	Comp	1	x	x	x												
BH0	41	Soil	7/28/2023	1300	9	Comp	1	x	x	x												
								_														
				The	Ith																	
			Aur	Un																		
	/																					
				RCRA 13P		44	41.0				04.0	0.		Dh	Ma M	n Mo		20 00	SiO M	la Sr Ti G	Sp 11	V 7n
Total 200.7 / 60				TCLP/S														be ny L	0.02 1 a: 1631	/ 245.1 / 7	470	7471
ircle Method(s) a	the second s					-														1240.111	410	
otice: Signature of this service. Eurofins Xen	o will be liable only	for the cos	t of samples and	shall not assur	ne any reso	onsibility	for any	losses	orexpe	enses i	curred b	v the cli	ent if such	osses are	e due to e	circumsta	nces bey	ond the	control			
f Eurofins Xenco. A mir	imum charge of \$85	00 will be	applied to each p	project and a ch	arge of \$5 f	or each s	ample s	ubmitte	ed to Eu	rofins >	lenco, bu	t not ana	lyzed. The	se terms v	vill be en	forced u	nless pre	viously r	negotlated.			
Relinquished by	: (Signature)	0	Received	by: (Signa	ture)		-	Date/Time Relinquished by: (Signature) Received by: (Signature)			(Signat	ure)		Date/Time								
Re la In	Zitta	I R	bely	D			7.0	28.23 1586														
10/2									ue.		4											
											-					1						

Work Order No:

www.xenco.com

State of Project:

Deliverables: EDD

Work Order Comments

Program: UST/PST T PRP Brownfields RRC Superfund

Reporting: Level II DLevel III PST/UST TRRP Level IV

ADaPT

Page

Other:

601 N Marienfeld St Suite 400

Hadlie Green

Ensolum, LLC

432-557-8895

Midland, TX 79701

Received by OCD: 9/7/2023 8:17:39 AM

🔅 eurofins

13

8/21/2023 (Rev. 1)

euro	Environment Testing Xenco			ting		Midland EL Pa	I, TX (4 so, TX	(915) 5	4-5440, 585-344	San A 3, Lub	ntonio bock.	TX (214) 9 5, TX (210 TX (806) NM (575)) 509- 3 794-12	3334 296		Work Order No:										
							HODDS	5, INIVA (5/5) 38	32-7550	, cans	bau,		300-31	55	_				www.:	xenco	.com	Page	2	of	2
Project Manager:	Hadli	e Gree	en			Bill to: (if	different	:)	Hadli	e Gree	n				_		Work Order Comments									
	Enso	lum, Ll	LC			Compan	y Name	:	Ensol	lum, Li	.C						Prog	ram: U	ST/PS	TOP	RP	Brow	nfields 🗌 F		Superfu	ind 🗌
Address:	601 N	V Marie	enfeld St S	uite 400		Address	:		601 N	Marie	enfeld	St St	uite 400				State of Project:									
	Midla	nd. TX	(79701			City, Sta	te ZIP:		Midla	nd, TX	7970	1					Reporting: Level II _ Level III _ PST/UST _ TRRP _ Level IV									
		557-88			Email:	hgreen	@ensol	lum.c	om								Deliv	erables	EDE		/	ADaP		Other:		
Project Name:	Winc	ward E	ed 2H/King	Tut Fed CBT	Turr	Around			1					ANA	LYSIS	REQ	UEST	•			-		Pres	ervati	ve Code	5
Project Number:	VVIIC		03D20242		Routine	Rush		Pres. Code							T								None: NO		DI Water	: H ₂ O
-			.195,-103.		Due Date:			Coue			-	1											Cool: Cool	1	MeOH: N	le
Project Location: Sampler's Name:			ter Van Pa		TAT starts th	e dav rece	ived by														1		HCL: HC		HNO3: H	N
PO #:					the lab, if red			ø													P		H ₂ S0 ₄ : H ₂		NaOH: N	а
SAMPLE RECEI	PT	Ten	np Blank:	Yes No	Wet Ice:	Yes	No	Parameters	6														H ₃ PO ₄ : HF			
Samples Received In	tact:	Ye	es No	Thermometer	ID:			Iran	300														NaHSO₄: I			
Cooler Custody Seals	s :	Yes	No N/A	Sorrection Fa	açtor:		-	Pa	PA:														Na ₂ S ₂ O ₃ :	-		
Sample Custody Sea	ls:	Yes	No N/A	Temperature			_		S (E		ı 🗧												Zn Acetate			C
Total Containers:				Corrected Te	mperature:		-		SIDE	015)	802												NaOH+Ascorbic Acid: SAPC			
Sample Iden	tificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Con	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)												Sam	iple C	omment	3
BH06	6A		Soil	7/28/2023	900	1	Comp	1	×	x	x											-	4			
BH06	6C		Soil	7/28/2023	910	3	Comp	1	x	x	X						ļ			ļ			<u> </u>			
BH01	в		Soil	7/28/2023	925	2	Comp	1	x	×	x					-	ļ				<u> </u>		<u> </u>			
BH01	D		Soil	7/28/2023	935	4	Comp	1	x	x	X										L	<u> </u>				
BH02	B		Soil	7/28/2023	945	2	Comp	1	x	x	x					-		-		<u> </u>						
BH02	2F		Soil	7/28/2023	1005	6	Comp	1	x	x	×		_				-			ļ						
BH05	БB		Soil	7/28/2023	1015	2	Comp	1	x	×	x		_		1	-	ļ	-								
BH05	G		Soil	7/28/2023	1040	7	Comp	1	x	×	x		_						-							
BH03	A		Soil	7/28/2023	1050	1	Comp	1	×	×	X	-	_	-												
BH03	G		Soil	7/28/2023	1150		Comp		x	X	X						<u> </u>		<u> </u>	<u> </u>			1			
Total 200.7 / 60 Circle Method(s) ar	nd Me	tal(s)		/zed	RCRA 13F TCLP/S	PLP 60	10: 8R	CRA	Sb /	As Ba	Be	Cd	Cr Co	Cu P	b Mn	Mo	Vi Se	Ag 7	ri u	-	Hg: 1	1631 /	a Sr TI S /245.1/74	nUV 470/7	/Zn 7471	
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5					0]					6									_			david Deta	08/25/2020 R	2020

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5009 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-5009-1 SDG Number: 03D2024204

List Source: Eurofins Carlsbad

14

Job Number: 890-5009-1 SDG Number: 03D2024204

List Source: Eurofins Midland

List Creation: 08/01/23 10:57 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 5009 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Eurofins Carlsbad



APPENDIX E

NMOCD Notifications

Released to Imaging: 11/28/2023 11:06:37 AM

From:	Wells, Shelly, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] COP - Sampling Notification (Week of 7/24/2023)
Date:	Wednesday, July 19, 2023 4:01:22 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 Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, July 19, 2023 1:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Peter Van Patten <pvanpatten@ensolum.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>;
Esparza, Brittany <brittany.esparza@conocophillips.com>; Carlile, Justin
<Justin.Carlile@conocophillips.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 7/24/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following sites the week of July 24, 2023.

• King Tut Federal CTB / NAPP2319132381

- Sampling Date: 7/24/2023 @ 0900 MST
- King Tut Federal CTB / NAPP2318734399
 - Sampling Date: 7/25/2023 @1200 MST
- Superman Water Treatment Facility / NAPP2319140286
 - Sampling Date: 7/26-27/2023 @ 0900 MST

Thank you,



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



APPENDIX F

Form C-141

Released to Imaging: 11/28/2023 11:06:37 AM

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

Page 119 of 126

Incident ID	NAPP2319132381
District RP	
Facility ID	fAPP2203843099
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC.	OGRID	229137				
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482				
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2319132381				
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701						

Location of Release Source

Latitude ____32.195

-103.7194

Longitude _____ (NAD 83 in decimal degrees to 5 decimal places)

Site Name	King Tut Federal CTB	Site Type	Flowline
Date Release Discovered	¹ June 21, 2023	API# (if applicable)	
	· · · · · · · · · · · · · · · · · · ·		

Unit Letter	Section	Township	Range	County
D	30	24S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material	rial(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) 158.54	Volume Recovered (bbls) 70
	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)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a hole that developed in a flex line due to corrosion.

This release was off pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Page 2

Oil Conservation Division

Incident ID	NAPP2319132381
District RP	
Facility ID	fAPP2203843099
Application ID	

ľ	Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
	release as defined by	Release was greater than 25 barrels.
	19.15.29.7(A) NMAC?	
	Yes No	
ľ	If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Immediate Notificati	ion was given by Jacob Laird on June 21, 2023 at 3:20 PM via email to ocd.enviro@
	emnrd.nm.gov and l	BLM NM <blm cfo="" nm="" spill@blm.gov.<="" td=""></blm>

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.

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 <u>not</u> been undertaken, explain why:

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 Brittany N. Esparza	Title: Environmental Technician
Printed Name Difficulty IV. ESpanza Signature:	Date: 7/10/2023 Telephone: (432) 221-0398
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>7/10/2023</u>

:06:3					Spill Calcul	lation - On-Pad	Surface Pool Spill
Convert Irregular shape into a series of rectangles		Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	35	80	2.0	2800.00	83.07	0.01	83.76
Rectangle B	50	50	2.0	2500.00	74.17	0.01	74.78
Rectangle C	-			0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E	ан — з			0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J. Released to Imaging: 7/10/2	2023 10-3	0.00 AN	7	0.00	0.00	0.00	0.00
Acted Sea to Anaging. 112012	020 10:0	0.00 1111	Total S	urface Pool Volum	e Released, Release	to Soil/Caliche:	158.5436

District | 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:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	237817
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition

scwells None CONDITIONS

Action 237817

Condition Date

7/10/2023

Received by OCD: 9/7/2023 8:17:39 AM Form C-141 State of New Mexico

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Ī	District RP		
Ī	Facility ID	fAPP2203843099	
	Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100 (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
- 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
- \boxtimes Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- \boxtimes 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.

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Form C-141			Incident ID	NAPP2319132381
Page 4	Oil Conservation Divis	ion	District RP	
			Facility ID	fAPP2203843099
			Application ID	
regulations all operators are requ public health or the environment. failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name:Jacob Laird Signature: <i>Jacob La</i>	ion given above is true and complete t ired to report and/or file certain releas . The acceptance of a C-141 report by nd remediate contamination that pose -141 report does not relieve the operat	the notifications and perform cody the OCD does not relieve the a threat to groundwater, surfa tor of responsibility for comple Title:	prrective actions for rele e operator of liability sho ce water, human health iance with any other fee l Engineer	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by: <u>Shelly Wells</u>		Date: <u>9/7/20</u>	23	

Received by OCD: 9/7/2023 8:17:39 AM Form C-141 State of New Mexico

Detailed description of proposed remediation technique

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Oil Conservation Division

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

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Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points \square Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Jacob Laird Title: Environmental Engineer Signature: <u>Jacob Laird</u> Date: 8/28/2023 email: __Jacob.Laird@conocophillips.com_____ Telephone: ____575-703-5482_____ **OCD Only** Received by: <u>Shelly Wells</u> Date: <u>9/7/2023</u> Approved Approved with Attached Conditions of Approval Denied Deferral Approved Nelson Velez Date: 11/28/2023 Signature:

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

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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

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	262946
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved as written. Remediation Due date updated to February 26, 2024.	11/28/2023

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Action 262946