State of New Mexico

Incident ID NA PD2124350506

Incident ID NAPP2124350596

District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items m	ust be included in the closure report.					
	AC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
□ Description of remediation activities						
Signature: Date	e notifications and perform corrective actions for releases which 1 report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, 1 report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially s that existed prior to the release or their final land use in					
OCD Only Received by:	Date:10/31/2022					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by:	Date:12/08/2022					
Closure Approved by:	Title: Environmental Specialist A					



October 27, 2022

New Mexico Oil Conservation Division

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

Re: Closure Request

Nocaster 19 Federal 004H

Incident Number NAPP2124350596

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Nocaster 19 Federal 004H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2124350596.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 19, Township 23 South, Range 34 East, in Lea County, New Mexico (32.284085° N, 103.50286° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On August 18, 2021, an oil dump diaphragm on a production knockout ruptured, causing the oil dump valve to malfunction. The malfunction resulted in a flare fire and the release of 0.9 barrels (bbls) of crude oil and 0.9 bbls of produced water. The release impacted the well pad and the adjacent pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on August 25, 2021, and subsequently submitted a *Release Notification Form C-141* (Form C-141) on August 31, 2021. The release was assigned Incident Number NAPP2124350596.

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 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on 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 nearest groundwater well data. On September 15, 2022, borehole BH01 (New Mexico Office of the State Engineer (NMOSE) file number C-04667) was advanced to a depth of 120 feet bgs

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

COG Operating, LLC Closure Request Nocaster 19 Federal 004 October 21, 2022

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via air rotary drill rig. The borehole was located approximately 0.4 miles west of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period, groundwater was not observed and it was confirmed groundwater beneath the Site is greater than 120 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent palustrine wetland, located approximately 2,340 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is greater than 1,000 feet to a freshwater well or spring. 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 NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Following the receipt of the approved right-of-entry (ROE) Permit from the New Mexico State Land Office (NM SLO), Ensolum visited the Site on November 5, 2021, to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary assessment soil samples (SS01 through SS04) were collected within the release extent at a depth of 0.5 feet bgs, to assess the soil for impacts. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The visible release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



COG Operating, LLC Closure Request Nocaster 19 Federal 004 October 21, 2022

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Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria and/or the reclamation requirement. Based on visible staining in the release area and laboratory analytical results for preliminary soil samples, additional remediation activities were warranted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On Feburary 15, 2022, Ensolum was at the Site to perform delineation activities. Eight boreholes (BH01 through BH08) were advanced via hand-auger within and around the release extent to delineate the lateral and vertical extent of impacted and waste-containing soil. Boreholes BH01 through BH04 were advanced within the release in the vicinty of preliminary soil sample locations SS01 through SS04, respectively. The boreholes were advanced to a maximum depth of 5 feet bgs. Delination soil samples BH05 through BH08 were collected from the boreholes at depths ranging from 1-foot bgs to 5 feet bgs. Soil from the delineation samples was field screened for VOCs and chloride. Field screening results and observations from each borehole were documented on a lithologic/soil sampling log, which is included in Appendix C. The delineation borehole soil samples were collected, handled, and analyzed as described above and submitted to Eurofins in Carlsbad, New Mexico. The release extent and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation samples collected from boreholes BH05 through BH08, advanced around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement for samples collected in the top 4 feet of pasture areas. Based on the laboratory analytical results, the lateral extent of the release was successfully defined.

Laboratory analytical results for the delineation soil samples collected from borehole BH02, advanced within the pasture release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. Laboratory analytical results for delineation soil samples collected from boreholes BH01, BH03, and BH04, advanced within the pasture release extent, indicated all COC concentrations were in compliance with the Site Closure Criteria; however, TPH and/or chloride concentrations exceeded the reclamation requirement at depths ranging from 1-foot to 3 feet bgs. The terminal depth sample collected at 5 feet bgs from borehole BH01 through BH04 indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the vertival extent of the release. Based on laboratory analytical results, excavation activities were warranted.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Between April 26, 2022 and April 27, 2022, Ensolum personnel were on site to complete excavation activities. Impacted and waste-containing soil was excavated as indicated by visible staining and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 0.5 feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted and waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS12 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet bgs. Composite soil samples SW01 through SW08 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.



COG Operating, LLC Closure Request Nocaster 19 Federal 004 October 21, 2022

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The excavation measured approximately 2,311 square feet in areal extent. A total of approximately 342 cubic yards of impacted and waste-containing soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for excavation floor samples FS01 through FS12, and sidewall samples SW01 through SW08, collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 18, 2021, crude oil and produced water release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation requirement. Based on the soil sample laboratory analytical results and confirmed depth to groundwater, no further remediation is required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2124350596. The Final C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Kalei Jennings

Senior Scientist

Sincerely,

Ensolum, LLC

Hadlie Green Staff Geologist

as Bassasia, COO On senting, LLC

cc: Charles Beauvais, COG Operating, LLC
New Mexico State Land Office

Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

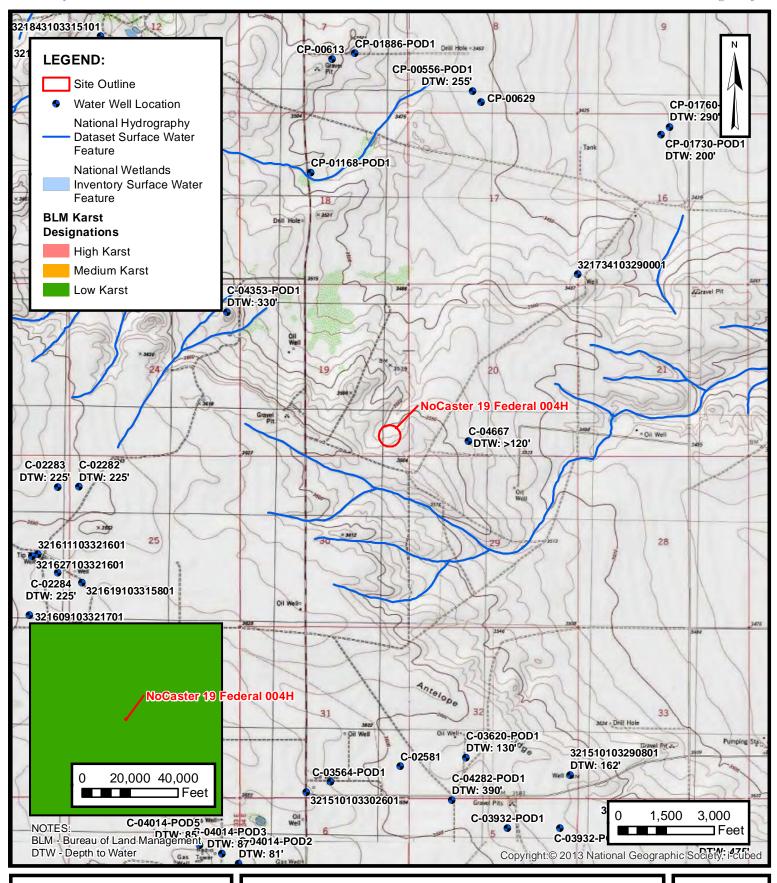
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E Final C-141





FIGURES





SITE LOCATION MAP

COG OPERATING, LLC NOCASTER 19 FEDERAL 004H NAPP2124350596

Unit P, Sec 19 T23S R34E Lea County, New Mexico FIGURE

1



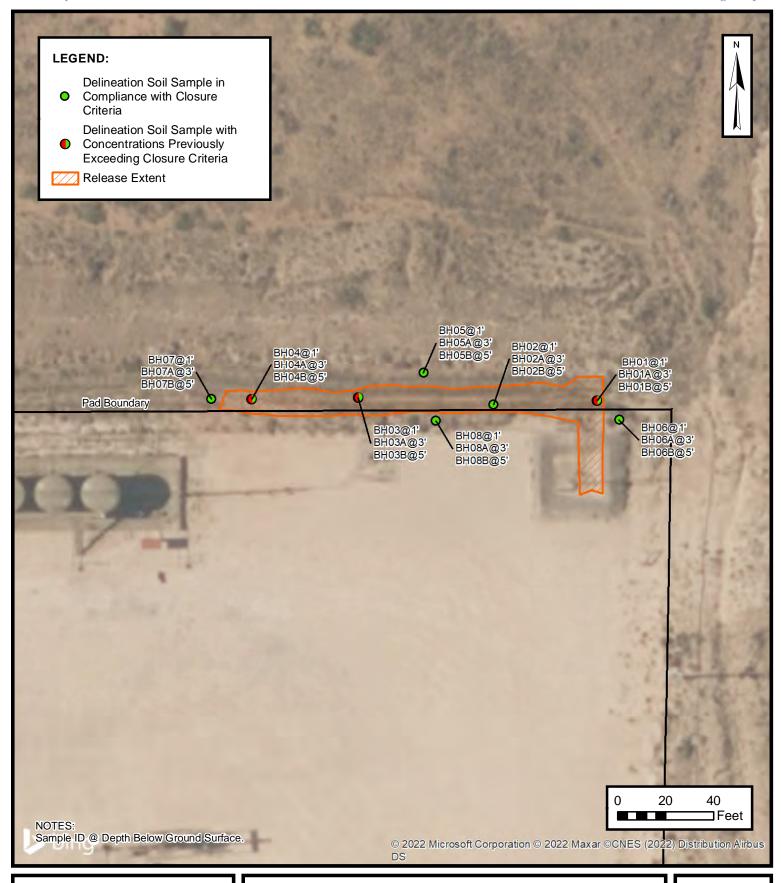


PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC NOCASTER 19 FEDERAL 004H NAPP2124350596

Unit P, Sec 19 T23S R34E Lea County, New Mexico FIGURE

2

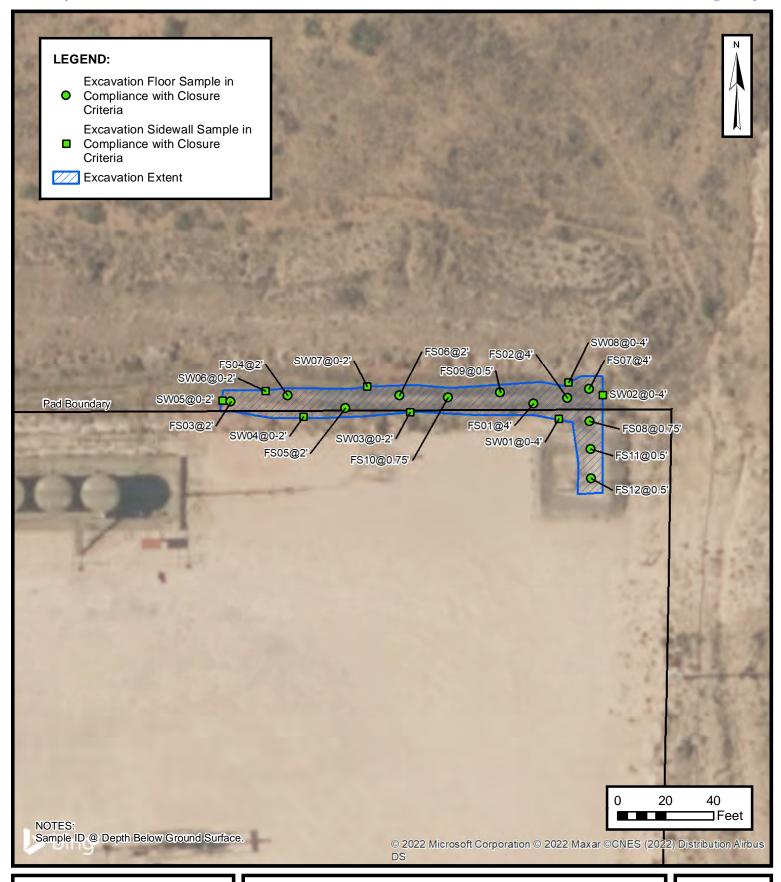




DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC NOCASTER 19 FEDERAL 004H NAPP2124350596

Unit P, Sec 19 T23S R34E Lea County, New Mexico FIGURE 3





EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC NOCASTER 19 FEDERAL 004H NAPP2124350596

Unit P, Sec 19 T23S R34E Lea County, New Mexico FIGURE 4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS NoCaster 19 Federal 004H COG Operating, LLC Lea County, New Mexico

	Lea County, New Mexico									
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminary	y Assessment So	oil Samples				
SS01	11/05/2021	0.5	<0.00200	< 0.00399	<49.8	4,290	<49.8	4,290	4,290	166*
SS02	11/05/2021	0.5	<0.00202	< 0.00403	<49.9	151	<49.9	151	151	1,330*
SS03	11/05/2021	0.5	<0.00199	<0.00398	<50.0	65	<50.0	65.3	65.3	7,310*
SS04	11/05/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	11,900*
				Deli	neation Soil Sam	ples				
BH01	02/15/2022	1	<0.00198	< 0.00397	<50.0	113	<50.0	113	113	960*
BH01A	02/15/2022	3	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,430*
BH01B	02/15/2022	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	761
BH02	02/15/2022	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	30.5*
BH02A	02/15/2022	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	20.1*
BH02B	02/15/2022	5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	27.4
BH03	02/15/2022	1	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	689*
вноза	02/15/2022	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	234*
BH03B	02/15/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	57.0
BH04	02/15/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	644*
BH04A	02/15/2022	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	150*
BH04B	02/15/2022	5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	12.9
BH05	02/15/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	531*
BH05A	02/15/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	41.1*
BH05B	02/15/2022	5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	30.9
BH06	02/15/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	700
BH06A	02/15/2022	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	833
BH06B	02/15/2022	5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	495

eived by OCD	· 10/31/2022 9·3	2:00 AM								Page 13
BH07	02/15/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	392*
BH07A	02/15/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	56.1*
BH07B	02/15/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	26.1
BH08	02/15/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	44.0
BH08A	02/15/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	12.1
				amples						
FS01	04/27/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	271
FS02	04/27/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	754
FS03	04/26/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	117*
FS04	04/27/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	166*
FS05	04/27/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	447*
FS06	04/27/2022	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	299*
FS07	04/27/2022	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	215
FS08	04/27/2022	0.75	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	624
FS09	04/27/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	586*
FS10	04/27/2022	0.75	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	344*
FS11	04/27/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	20.5
FS12	04/27/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	19.2
				Excavat	ion Sidewall Soil	Samples				
SW01	04/26/2022	0 - 4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	21.2*
SW02	04/26/2022	0 - 4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	11.7*
SW03	04/26/2022	0 - 2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	351*
SW04	04/26/2022	0 - 2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	19.5*
SW05	04/27/2022	0 - 2	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	222*
SW06	04/27/2022	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	566*
SW07	04/27/2022	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	14.9*
SW08	04/27/2022	0 - 4	<0.00200	0.212	<49.9	<49.9	<49.9	<49.9	<49.9	243*

Notes:

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

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

* indicates soil in the top 4 feet of pasture to be reclaimed



APPENDIX A

Referenced Well Records

								Sample Name: BH01 (C-04667)	Date: 09/15/2022	
							B. 4			
			N	5	0 1	_ U	V	Incident Number: NAPP2124350596		
								Job Number: 03D2024007		
		LITHOL	OGI	· / sou s	SAMPLING	106				
Coordi					DAIVIF LIIVO	100		Logged By: Hadlie Green Method: Air Rotary Hole Diameter: 6" Total Depth: 120'		
Coordinates: 32.282916, -103.504054 Comments: Field screening conducted with HACH Chloride Test Strips and performed with 1:4 dilution factor of soil to distilled water.								· ·		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·	
					1	<u> </u>	CCHE	CALICHE, light tan, fine to m 1" limestone clasts, slightly	nedium grained upto moist, no stain/odor.	
					- -	10	SM	SILTY SAND, tannish brown, limestone clasts, well sort	fine grained, less ed, no stain/odor.	
					- - -	20				
	30									
					- -	40	SM	SAA, light brown, trace grav	el, some clay.	
					-	50				
					-	60	SM	SAA, reddish brown, more clay mudstone clasts (1-2 cm).		
					- - -	70				
					- -	80	SM	SAA, less mudstone clasts.		
					_	90				
					- - -	100	SM	SAA, some green mudstone	clasts.	
					- - -	110	SM	SILTY SAND, dark reddish br mudstone clasts absent, we	ll sorted, slightly	
					-	120	SM	consolidated, no stain/odor SAA		
			_			TD @	9 120 ft	bgs		
							_	_		

File No.	C-04/462

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

	For fees, see State Engine	eer website: http://www.ose.state.nm.us/					
Purpose:	Pollution Control And/Or Recovery	☐ Ground So	urce Heat Pump				
Exploratory Well (Pump test)	Construction Site/P Works Dewatering	Public	cribe): Environmental Sampling				
☐ Monitoring Well	☐ Mine Dewatering						
A separate permit will be required	to apply water to beneficial	use regardless if use is consumptive	e or nonconsumptive.				
Temporary Request - Request	■ Temporary Request - Requested Start Date: Requested End Date.						
Plugging Plan of Operations Subn	nitted? 🔳 Yes 🔲 No						
1. APPLICANT(S)							
Name Charles Beauvais		Name Kalei Jennings					
Contact or Agent	check here if Agent	Contact or Agent.	check here if Agent 🔳				
COG Operating, LLC.		Ensolum					
Mailing Address 2208 W Main Street		Mailing Address: 601 N. Marienfield St. Suite 4	00				
City		City:					
City: Artesia		Midland					
	Zip Code: 88210	Midland State. Texas	Zip Code: 79701				
Artesia State:		State.					

	FOR OSE INTERNAL USE	Application for Permit, Form WR-0	37, Rev 11/17/16
1	File No.: C- OYUU7	Tm. No.: 733232	Receipt No.: 2-44954
	Trans Description (optional):	- 04667-PO1	0
	Sub-Basin:	PCW/LOG Due	Date: 9/2/23
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2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.							
☐ NM State Plane (NAD83) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone		JTM (NAD83) (Mete]Zone 12N]Zone 13N	Lat/Long (WGS84) (to the nearest 1/10 th of second)				
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name				
C-04/667-12001	32.284043	-103.494490	Unit N, Sec 20, T 23S, R 34E				
NOTE: If more well locations Additional well descriptions			WR-08 (Attachment 1 – POD Descriptions) If yes, how many				
Other description relating well							
Located on the Stratoc	aster 20 Federal 002	H pad (32,284043, -	103.494490)				
Well is on land owned by: BLM	1						
	nore than one (1) we	Il needs to be desc	ribed, provide attachment. Attached? Yes No				
If yes, how many	A). 440	1.					
Approximate depth of well (fee Driller Name: West Texas Wat			utside diameter of well casing (inches): NA				
Drifter Ivalile, West Texas Wat	er vveli Services	L_D	riller License Number: WD #1184				

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

COG Operating, LLC (COG) will oversee installation of a soil boring to approximately 110 feet below ground surface. The soil boring will be left open for approximately 72 hours, to allow for the slow infill of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. The depth to water boring is located at 32.284043, -103.494490 and will confirm regional depth to water and assist with determination for Nocaster 19 Fed 004H (Incident Number NAPP2124350596) and Broadcaster 29 Federal 3H (Incident Numbers NAPP2132773092 and NAPP2201938653).

GSE OTT AUG 1.9 2022 PME123

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-04667 Tm No.: 733232

Page 3 of 3

Exploratory:	Pollution Control and/or Recovery:	Construction	Mine De-Watering:
Include a	Include a plan for pollution	De-Watering:	☐ Include a plan for pollution
description of	control/recovery, that includes the	Include a description of the	control/recovery, that includes the following:
any proposed	following:	proposed dewatering	A description of the need for mine
pump test, if	A description of the need for the	operation,	dewatering.
applicable.	pollution control or recovery operation.	The estimated duration of	☐ The estimated maximum period of time
	☐ The estimated maximum period of	the operation,	for completion of the operation.
	time for completion of the operation.	☐ The maximum amount of	The source(s) of the water to be diverted
	The annual diversion amount.	water to be diverted,	☐The geohydrologic characteristics of the
	The annual consumptive use amount.	A description of the need for the dewatering operation,	aquifer(s).
10.5	☐ The maximum amount of water to be	and,	The maximum amount of water to be diverted per annum.
	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation.
	☐ The method and place of discharge.	of.	☐The quality of the water.
Monitoring:	☐ The method of measurement of	Ground Source Heat Pump:	The method of measurement of water
☐ Include the	water produced and discharged.	☐ Include a description of the	diverted.
reason for the	The source of water to be injected.	geothermal heat exchange	The recharge of water to the aquifer.
monitoring	☐ The method of measurement of	project,	Description of the estimated area of
well, and,	water injected.	☐ The number of boreholes	hydrologic effect of the project.
The duration	☐ The characteristics of the aquifer. ☐ The method of determining the	for the completed project and	☐The method and place of discharge. ☐An estimation of the effects on surface
of the planned	resulting annual consumptive use of	required depths. The time frame for	water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
3	stream system.	heat exchange project, and,	☐A description of the methods employed to
	Proof of any permit required from the	☐ The duration of the project.	estimate effects on surface water rights and
	New Mexico Environment Department.	Preliminary surveys, design	underground water rights.
	☐ An access agreement if the	data, and additional	☐Information on existing wells, rivers,
	applicant is not the owner of the land on	information shall be included to	springs, and wetlands within the area of
	which the pollution plume control or recovery well is to be located.	provide all essential facts	hydrologic effect.
		relating to the request.	
	ACKI	NOWLEDGEMENT	
I, We (name of app	plicant(s)), Kalei Jennings		
		Name (a)	
		Name(s)	
affirm that the fore	going statements are true to the best of (my	, our) knowledge and belief.	
	-12.1		
	Kalui Jannogo		
Applicant Signa	· · · · · · · · · · · · · · · · · · ·	Applicant Signature	
r ipproduct origina		Applicant dignature	•
	ACTION	OF THE STATE ENGINEER	
		This application is:	
	☐ approved	partially approved	denied
provided it is r	not exercised to the detriment of any others		ontrary to the conservation of water in New
Mexico nor de	trimental to the public welfare and further su	bject to the attached conditions of	f approval.
			• •
Witness my han	nd and seal this 2 day of	pumber 20 22.	for the State Engineer.
			,
∞ V	e Hamman, P. E	Panta Fraince	
	E 4100 1111 CO 1 1 7 7 . C	, State Engineer	
	1/0 11	1/001	1
By:	K.Parekh	Kas nu	ap ranekn
Signature		Kashy	
Title \\	_	anaser I	-
Print		51 UZU -	
		•	
	FOR OS	E INTERNAL USE	Application for Permit, Form WR-07

FOR OSE INTERNAL USE

File No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0137

Expires: July 31, 2010				
5. Lease Serial No. NMNM105444932	_			
6. If Indian, Allottee or Tribe Name	_			

Released to Imaging: 12/8/2022 1:21:23 PM

			NMNM105444932			
Do not use this t	IOTICES AND REPO form for proposals t Use Form 3160-3 (A	6. If Indian, Allottee o	r Tribe Name			
	T IN TRIPLICATE - Other	instructions on page 2.		7. If Unit of CA/Agree	ement, Name and/or No	
1. Type of Well Oil Well Gas V	7-11 DOM:	8. Well Name and No.				
	Vell Other	Stratocaster 20 Federal #002H				
Name of Operator COG Operating, LLC				9. API Well No. 30-025-41381		
3a. Address 2208 W Main Street Artesia, NM 88210		3b. Phone No. (include area co 575-988-2043	ode)	10. Field and Pool or E	Exploratory Area	
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description)		11. Country or Parish,	State	
32.284043, -103.494490 (Unit N, Sec 20, T 235	, R 34E)			Lea County, NM		
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICATE NATUR	RE OF NOTIC	E, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION		TY	YPE OF ACTI	ION		
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Recla	mation (Start/Resume)	Water Shut-Off Well Integrity ✓ Other Surface Disturbance	
Subsequent Report	Casing Repair Change Plans	New Construction		mplete	Other Surface Disturbance	
Final Abandonment Notice	Convert to Injection	☐ Plug and Abandon☐ Plug Back		orarily Abandon r Disposal		
13. Describe Proposed or Completed Of the proposal is to deepen directions. Attach the Bond under which the vibration of the involvitesting has been completed. Final determined that the site is ready for the proposal of the involvitesting has been completed.	ally or recomplete horizontall work will be performed or pro ed operations. If the operation Abandonment Notices must t	ly, give subsurface locations and ovide the Bond No. on file with I on results in a multiple completion	d measured and BLM/BIA Re	d true vertical depths of equired subsequent rep- etion in a new interval	f all pertinent markers and zones orts must be filed within 30 days a Form 3160-4 must be filed once	
COG Operating, LLC (COG) resp determination for NoCaster 19 Fed I NAPP2201938653). The proposed to oversee the installation of a soil bori for the slow infill of groundwater. Fo plugging procedures. A site map and	004H (Incident Number NA porehole location is on CO ng to approximately 110 fo Ilowing the 72 hour waiting	APP2124350596) and Broadc G Operating pad Stratocaster set below ground surface. The period, the soil boring will be	caster 29 Fed or 20 Federal e soil boring e backfilled fo	deral 3H (Incident Nu 002H located at 32.2 will be left open for a	mber NAPP2132773092 and 284043, -103.494490. COG will pproximately 72 hours, to allow Office of the State Engineer	
B				20107	FALG 18 2022 ML:35	

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

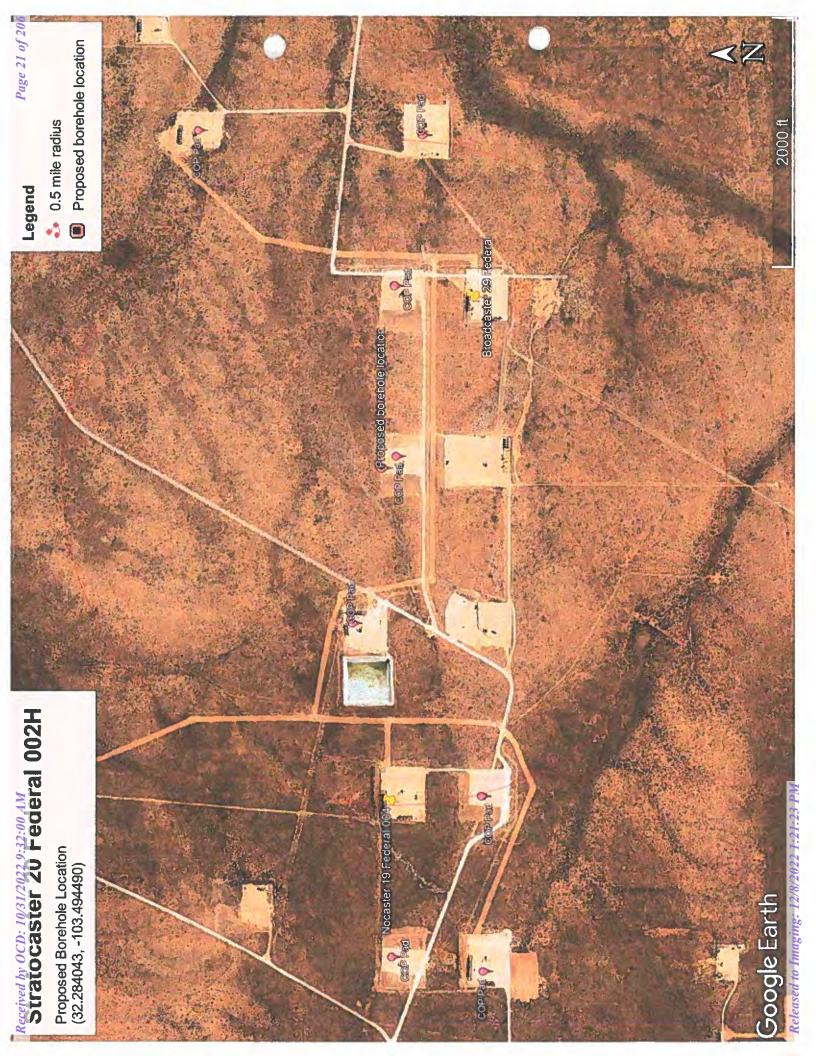
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240







United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad. NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMNM105444932

August 15, 2022

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: Stratocaster 20 Federal 2H

30-025-41381

Section 20, T23S-R34E 32.284043,-103.494490 Lea County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface via a truck-mounted rig with hallow stem auger equipment. The boring will be secured and left open for 72 hours at which time COG Operating LLC will assess for the presence or absence of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha Morgan Crisha A. Morgan

Certified Environmental Protection Specialist

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04667 File Number: C 04667
Trn Number: 733232

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before, unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

Trn Desc: C 04667 File Number: C 04667

Trn Number: 733232

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04667 POD1 must be completed and the Well Log filed on or before 09/02/2023.

IT IS THE PERMITTEE_S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 09/02/2022 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 02 day of Sep A.D., 2022

Mike A. Hamman, P.E. , State Engineer

KASHYAP PAREKH

Trn Desc: C 04667 File Number: C 04667
Trn Number: 733232

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 733232 File Nbr: C 04667

Sep. 02, 2022

COG OPERATING, LLC CHARLES BEAUVAIS 2208 W MAIN ST ARTESIA, NM 88210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Megen Telles (575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 733232 File Nbr: C 04667

Sep. 02, 2022

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

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Megen Telles (575)622-6521

Enclosure

explore



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmm/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FIL	ING FEE: There is no filing	ng fee for this form.					
II. GE	NERAL / WELL OWNE	RSHIP: Check	here if proposing o	ne plan for multiple monitoring	wells on the same site and attaching WD-08m		
Existin	g Office of the State Engine of well owner: COG Ope	ineer POD Number rating, LLC	(Well Number) for well to be plugged	: BHO (-1,667-POP		
Mailing	address: 2208 W Main S	Street		County:			
City: _	Artesia		State:	New Mexico	Zip code88210		
Phone number: 575-988-2043			E-mai	E-mail: charles.beauvais@conocophillips.com			
	ELL DRILLER INFORM						
Well Di	riller contracted to provide	plugging services:	West Texas Dril	ling Services			
New M	exico Well Driller License	No.: WD# 1184		Expiration Da	nte: 10/31/2023		
1)	A copy of the existing Well GPS Well Location: Reason(s) for plugging we	Latitude: 32 Longitude: 10		17 min, 2.55 29 min, 40.1	•		
	Soil boring						
3)	Was well used for any typ what hydrogeologic para water, authorization from	meters were monito	red. If the we	ell was used to monitor	ction VII of this form to detail contaminated or poor quality prior to plugging.		
4)	Does the well tap brackis	h, saline, or otherwis	se poor quality	water? N/A I	f yes, provide additional detail,		
	including analytical result	s and/or laboratory r	eport(s):				
5)	Static water level:	100 feet below	land surface / f	eet above land surface	(circle one)		
6)	Depth of the well:	110 feet					

WD-08 Well Plugging Plan Version: July 31, 2019 Page 1 of 5

7)

Inside diameter of innermost casing:

8)	Casing material: Temporary PVC SCH 40					
9)	The well was constructed with:					
	an open-hole production interval, state the open interval:					
	a well screen or perforated pipe, state the screened interval(s): N/A					
0)	What annular interval surrounding the artesian casing of this well is cement-grouted? N/A					
1)	Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or					
	otherwise sealed? If yes, please describe:					
2)	Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.					
'. DI	ESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.					
iagrar	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such hysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.					
lso, if	this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.					
)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology					
	proposed for the well:					
	The temporary 2" well material will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged using hydrated bentonite. If groundwater is encountered the boring will be plugged, tremie from bottom to a slurry of Portland Type I/II cement in lifts.					
)	Will well head be cut-off below land surface after plugging? N/A					
	LUGGING AND SEALING MATERIALS:					
ote: om th	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty scalant. Attach a copy of the batch mix e cement company and/or product description for specialty cement mixes or any scalant that deviates from the list of OSE approved scalants.					
)	For plugging intervals that employ cement grout, complete and attach Table A.					
)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.					
)	Theoretical volume of grout required to plug the well to land surface: 287					
)	Type of Cement proposed: Type I/II					
5)	Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.					

_inches.

056 077 AUG 18 2022 ML 134

8) Additional notes and calculations: N/A	
N/A	
N/A	
N/A	
N/A	
YII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):	
N/A	
	İ
VIII. SIGNATURE:	
I, Kalei Jennings , say that I have carefully read the foregoing Well Plugging Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the S	g Plan of
Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in	n the Well
Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.	
Kalei Johnnoger	8/15/2022
Signature of Applicant	D .
	Date
IX. ACTION OF THE STATE ENGINEER:	Date
IX. ACTION OF THE STATE ENGINEER:	Date
IX. ACTION OF THE STATE ENGINEER: This Well Plugging Plan of Operations is:	Date
This Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.	Date
This Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.	
This Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 22 day of Algust, 202	2
This Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 22 day of Algust 202 Mike A. Hannen John R. D'Antonio Fr. P.E., New Mexico State Eng	2
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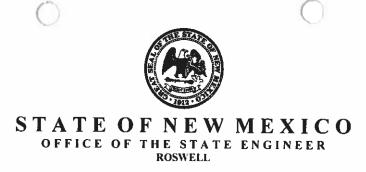
TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 - most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	onsite
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

SEM HJG182///#5-5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow	
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.	
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0	
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10	
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26	
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Baroid Hold Plug	



Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

August 22, 2022

COG Operating LLC 2208 W. Main Street Artesia, NM 88210

RE: Well Plugging Plan of Operations for well no. C-4667-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Received by OCD: 10/31/2022 9:32:00 AM

Kashyap Parekh

Water Resources Manager I



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. West Texas Drilling Services (WD-1184) will perform the plugging.

Permittee: COG Operating LLC NMOSE Permit Number: C-4667-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4667-POD1	2	110	100	32° 17' 2.55"	103° 29' 40.16''

Specific Plugging Conditions of Approval for Well located in Eddy County.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- 2. The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- 3. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- 4. <u>Dry Hole:</u> (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with fresh water at the rate of 5 gallons per 50-lb sack/bucket.
- 5. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

- 6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
- 7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 9. NMOSE witnessing of the plugging of the shallow well will not be required.
- 10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 22nd day of August 2022

Mike A. Hamman, P.E. State Engineer

Bv:

Kashyap Parekh Water Resources Manager I



APPENDIX B

Photographic Log



Photographic Log
COG Operating, LLC
NoCaster 19 Federal 004H
Incident Number NAPP2124350596



Photograph 1 Date: 11/5/2021
Description: Photo of release extent taken during initial site assessment activities.



Description: Photo of BH03 taken during delineation activities.



Photograph 3 Date: 4/27/2022 Description: Photo of final excavation extent.

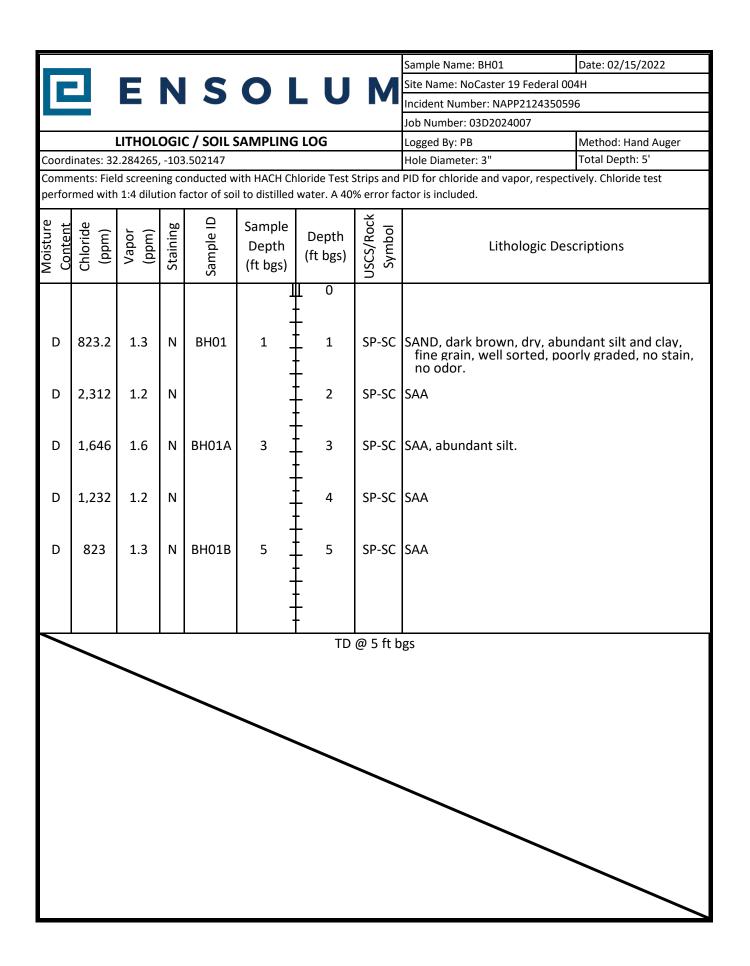


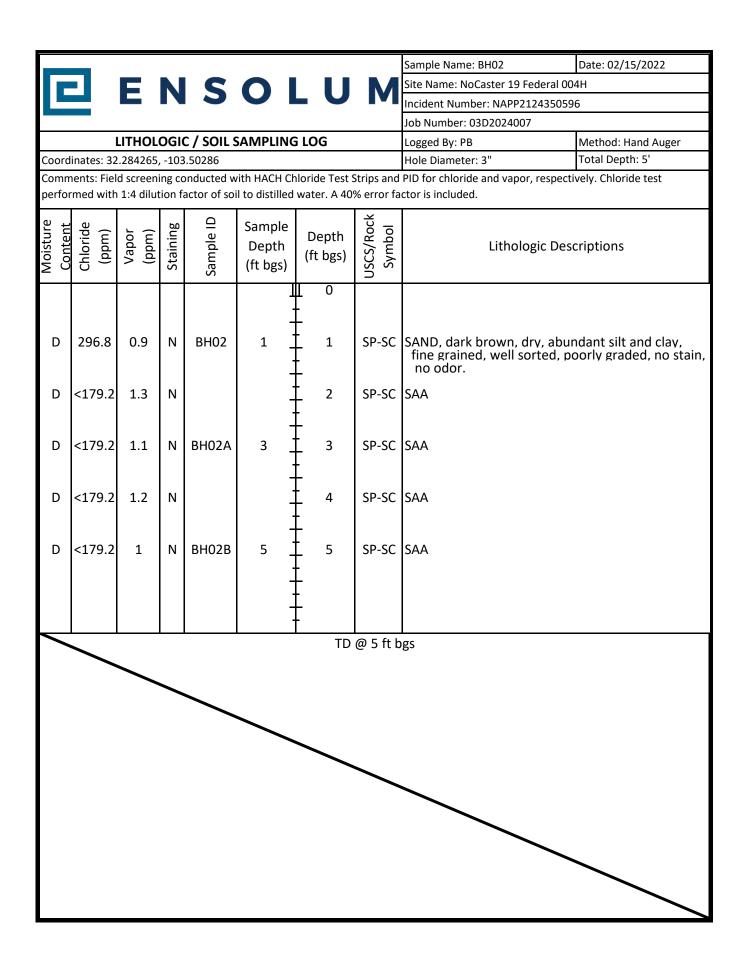
Photograph 4 Date: 4/27/2022 Description: Photo of final excavation extent.

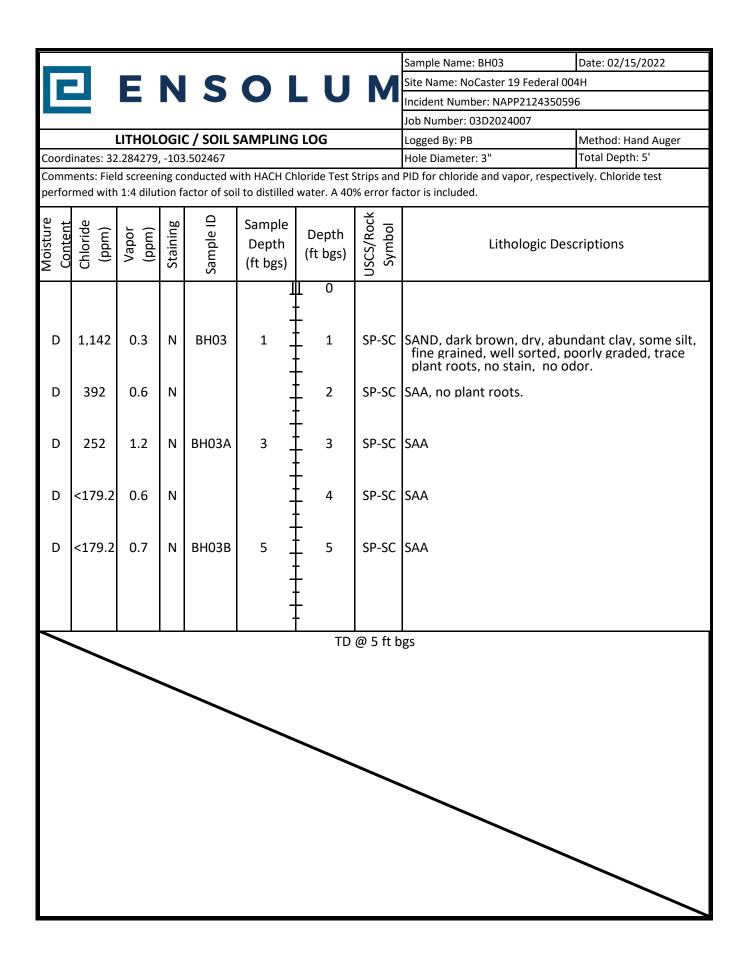


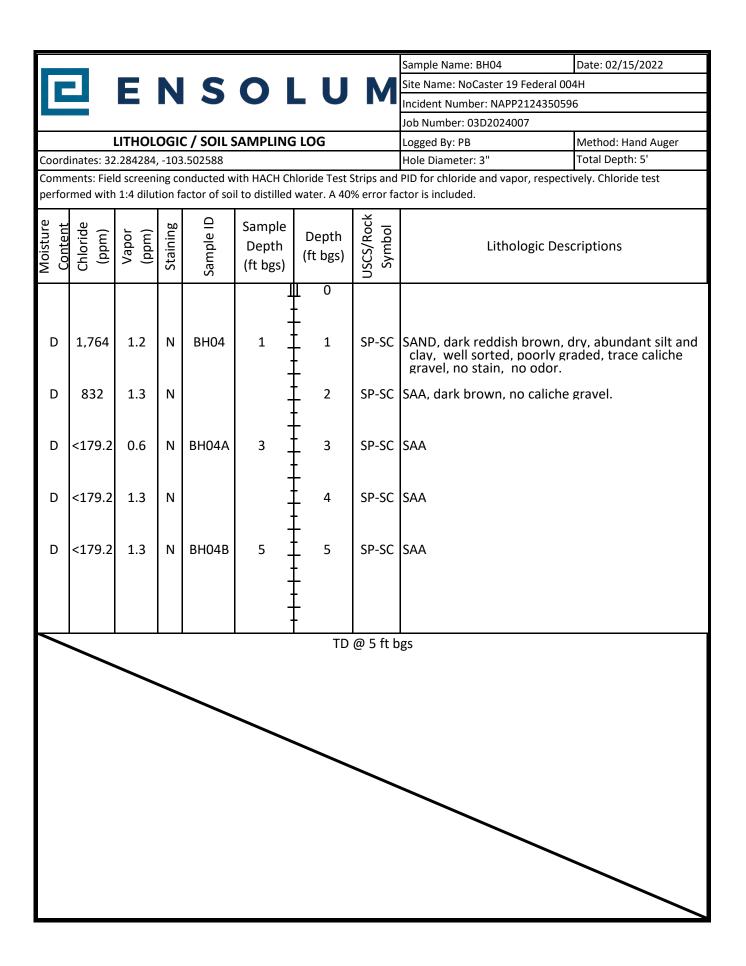
APPENDIX C

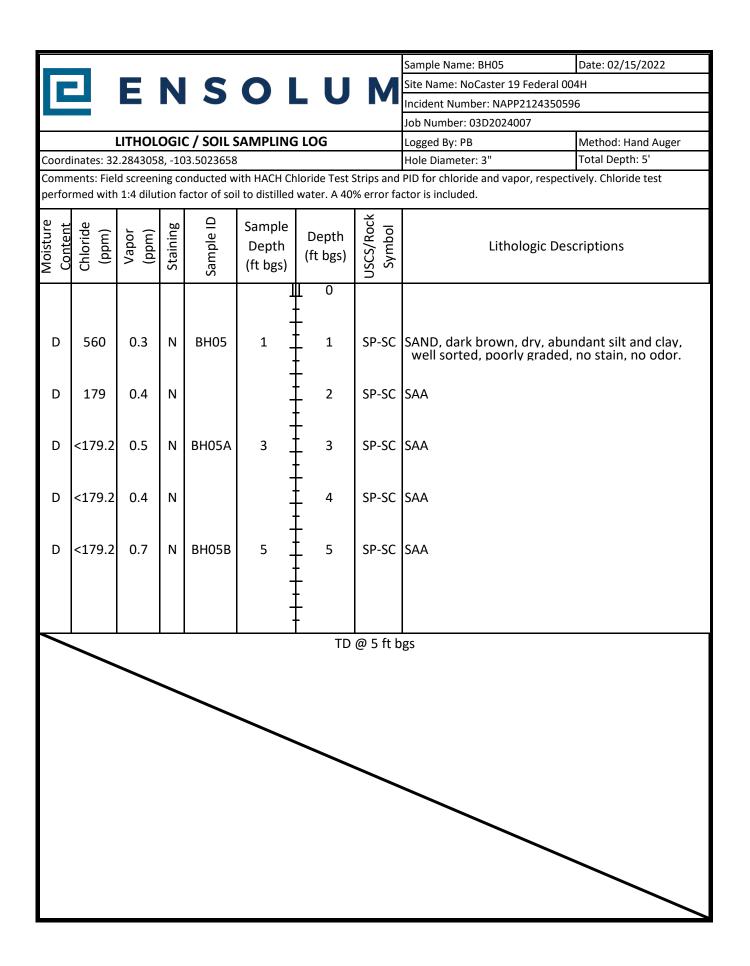
Lithologic Soil Sampling Logs

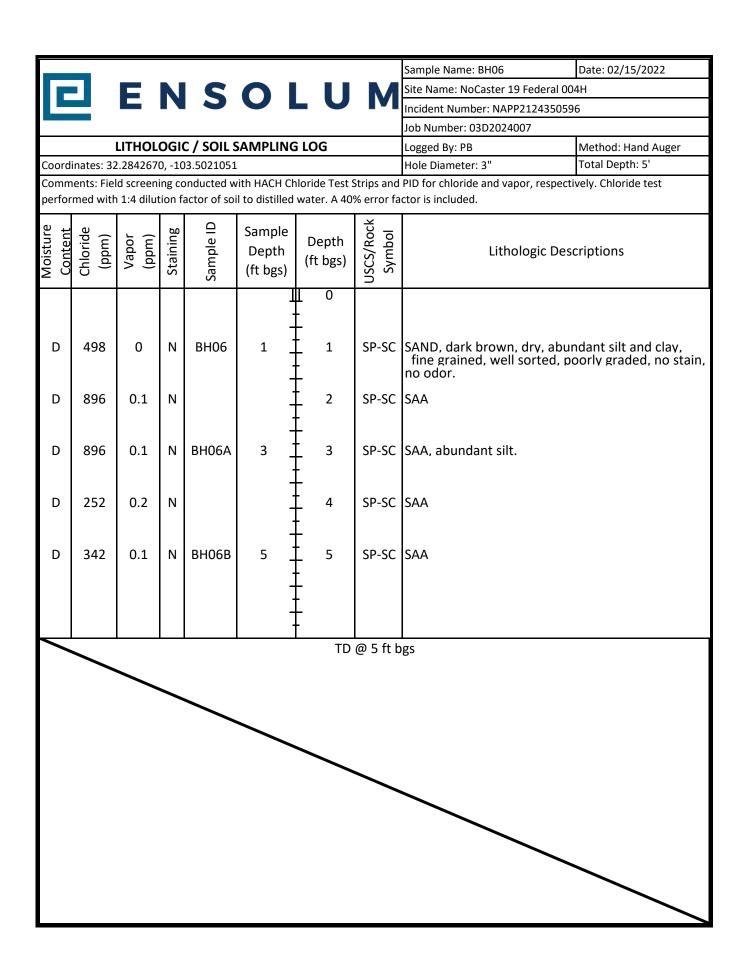


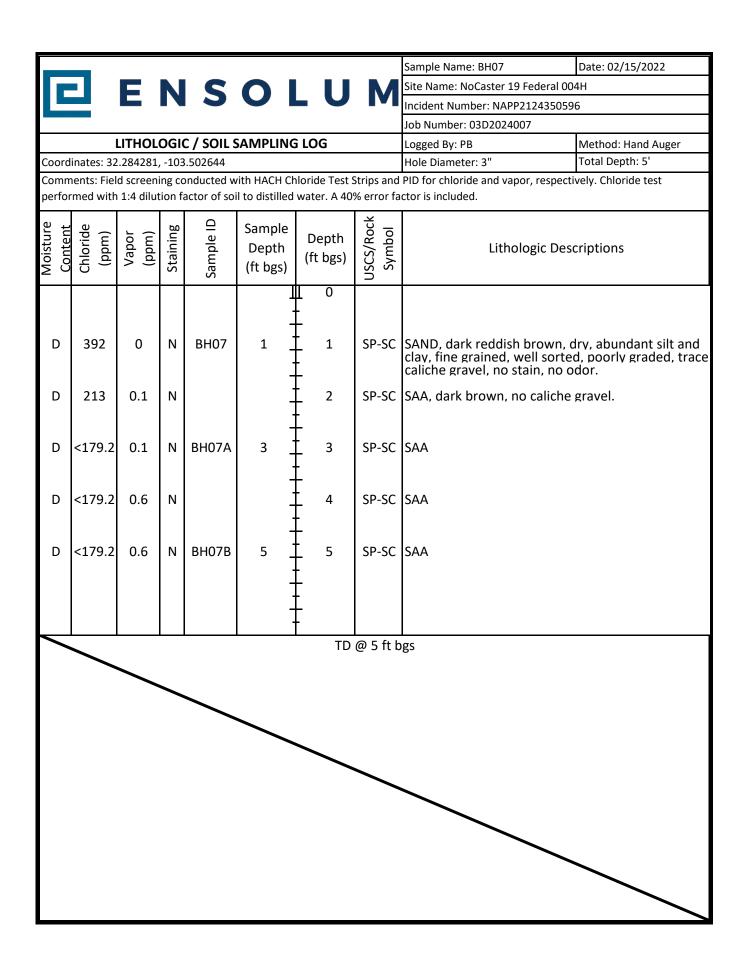


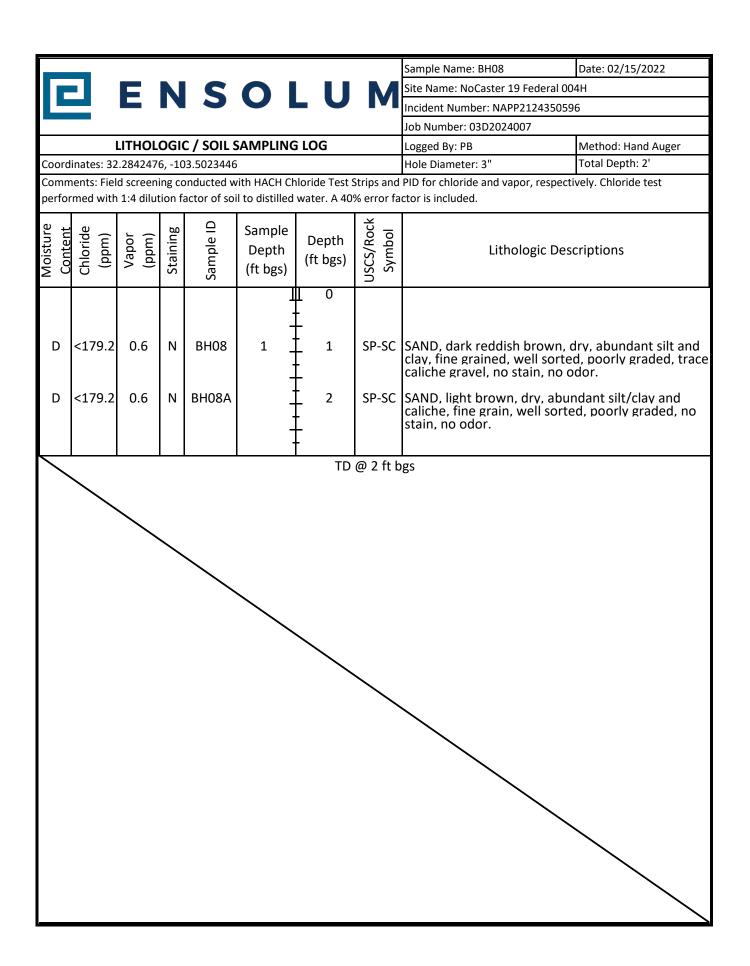














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1546-1

Laboratory Sample Delivery Group: 31402909.16 Client Project/Site: NoCaster 19 Federal 004h

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Kalei Jennings

MRAMER

Authorized for release by: 11/15/2021 3:48:00 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/8/2022 1:21:23 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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14

Client: WSP USA Inc. Laboratory Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

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QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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 **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc. Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Job ID: 890-1546-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1546-1

Receipt

The samples were received on 11/8/2021 4:15 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 1.4°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-11824/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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.

Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Client Sample ID: SS01 Lab Sample ID: 890-1546-1

Date Collected: 11/05/21 15:53

Matrix: Solid

Date Received: 11/08/21 16:15

Sample Depth: 0.5 - .

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			11/10/21 09:30	11/10/21 15:53	1
1,4-Difluorobenzene (Surr)	90		70 - 130			11/10/21 09:30	11/10/21 15:53	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/15/21 14:07	1
	4290	<u>quamer</u>	49.8	mg/Kg		Tropurcu	11/11/21 15:24	1
Analyte Total TPH		Qualifier	49.8 ———	Unit mg/Kg	D	Prepared	Analyzed 11/11/21 15:24	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	• •	Qualifier						
	rtoouit	Qualifici	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8		49.8	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 11/11/21 08:21	Analyzed 11/11/21 16:48	
Gasoline Range Organics (GRO)-C6-C10					<u> </u>	<u>.</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	<u>D</u>	11/11/21 08:21	11/11/21 16:48	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 4290	U	49.8	mg/Kg	<u>D</u>	11/11/21 08:21	11/11/21 16:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 4290 <49.8	U	49.8 49.8 49.8	mg/Kg	<u>D</u>	11/11/21 08:21 11/11/21 08:21 11/11/21 08:21	11/11/21 16:48 11/11/21 16:48 11/11/21 16:48	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 4290 <49.8 %Recovery	U	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u> </u>	11/11/21 08:21 11/11/21 08:21 11/11/21 08:21 Prepared	11/11/21 16:48 11/11/21 16:48 11/11/21 16:48 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 4290 <49.8 **Recovery 93 77	U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/11/21 08:21 11/11/21 08:21 11/11/21 08:21 Prepared 11/11/21 08:21	11/11/21 16:48 11/11/21 16:48 11/11/21 16:48 Analyzed 11/11/21 16:48	Dil Face Dil Face 1 Dil Face 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 4290 <49.8 **Recovery 93 77 omatography -	U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/11/21 08:21 11/11/21 08:21 11/11/21 08:21 Prepared 11/11/21 08:21	11/11/21 16:48 11/11/21 16:48 11/11/21 16:48 Analyzed 11/11/21 16:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SS02 Lab Sample ID: 890-1546-2

Date Collected: 11/05/21 15:55 Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/10/21 09:30	11/10/21 16:13	1

Eurofins Xenco, Carlsbad

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10

12

13

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1546-1

Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Client Sample ID: SS02 Lab Sample ID: 890-1546-2

Date Collected: 11/05/21 15:55 Matrix: Solid Date Received: 11/08/21 16:15

Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds (GC) (Conti	nued)			
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	106	70 - 130	11/10/21 09:30	11/10/21 16:13	

Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/15/21 14:07	1

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	151	49.9	mg/Kg			11/11/21 15:24	1

Method: 8015B NM - Diesel Rang	je Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1
Diesel Range Organics (Over C10-C28)	151		49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

o-Terphenyl	108	70 - 130			11/11/21 08:21	11/11/21 17:09	1
Method: 200 0 Anione Jan Chromotom	mambu. Calubla						
Method: 300.0 - Anions, Ion Chromatog	rapny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

70 - 130

104

Result Qualifier

65.3

Chloride 1330 4.98 mg/Kg 11/14/21 01:39 **Client Sample ID: SS03** Lab Sample ID: 890-1546-3

Date Collected: 11/05/21 15:57 Date Received: 11/08/21 16:15

Analyte

Total TPH

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/10/21 09:30	11/10/21 18:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/10/21 09:30	11/10/21 18:02	1
Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/15/21 14:07	

Eurofins Xenco, Carlsbad

Analyzed

11/11/21 15:24

RL

50.0

Unit

mg/Kg

11/11/21 08:21

Prepared

11/11/21 17:09

Matrix: Solid

11/15/2021

Dil Fac

Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

roject/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Client Sample ID: SS03

Date Collected: 11/05/21 15:57

Matrix: Solid

Date Received: 11/08/21 16:15

Sample Depth: 0.5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/11/21 08:21	11/11/21 17:30	1
Diesel Range Organics (Over C10-C28)	65.3		50.0	mg/Kg		11/11/21 08:21	11/11/21 17:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 08:21	11/11/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			11/11/21 08:21	11/11/21 17:30	1
o-Terphenyl	104		70 - 130			11/11/21 08:21	11/11/21 17:30	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7310		49.5	mg/Kg			11/14/21 01:44	10

Client Sample ID: SS04

Date Collected: 11/05/21 15:58

Lab Sample ID: 890-1546-4

Matrix: Solid

Date Collected: 11/05/21 15:58

Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			11/10/21 09:30	11/10/21 18:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/10/21 09:30	11/10/21 18:23	1
- Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/15/21 14:07	1
- Method: 8015 NM - Diesel Range								
metriou. Ou io ivivi - Diesel Kallyt	Organics (DR	O) (GC)						
	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	•	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/11/21 15:24	Dil Fac
Analyte Total TPH	Result < 50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			11/11/21 15:24	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg		Prepared	11/11/21 15:24 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	11/11/21 15:24 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/11/21 08:21 11/11/21 08:21	11/11/21 15:24 Analyzed 11/11/21 17:51 11/11/21 17:51	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 11/11/21 08:21	11/11/21 15:24 Analyzed 11/11/21 17:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/11/21 08:21 11/11/21 08:21	11/11/21 15:24 Analyzed 11/11/21 17:51 11/11/21 17:51	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/11/21 08:21 11/11/21 08:21 11/11/21 08:21	Analyzed 11/11/21 17:51 11/11/21 17:51 11/11/21 17:51	1 Dil Fac 1 1

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Client Sample ID: SS04 Lab Sample ID: 890-1546-4

Date Collected: 11/05/21 15:58

Date Received: 11/08/21 16:15

Sample Depth: 0.5

	Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	11900		101	mg/Kg			11/14/21 01:49	20

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Surrogate Summary

Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-8100-A-21-A MS	Matrix Spike	113	102	
880-8100-A-21-B MSD	Matrix Spike Duplicate	117	104	
890-1546-1	SS01	123	90	
890-1546-2	SS02	120	106	
890-1546-3	SS03	107	99	
890-1546-4	SS04	110	98	
LCS 880-11824/1-A	Lab Control Sample	112	102	
LCSD 880-11824/2-A	Lab Control Sample Dup	108	101	
MB 880-11824/5-A	Method Blank	62 S1-	111	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

Matrix: Cona				Trep Type: Totality
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1546-1	SS01	93	77	
890-1546-2	SS02	104	108	
890-1546-3	SS03	100	104	
890-1546-4	SS04	102	105	
890-1555-A-1-D MS	Matrix Spike	100	99	
LCS 880-11990/2-A	Lab Control Sample	84	93	
LCSD 880-11990/3-A	Lab Control Sample Dup	83	86	
MB 880-11990/1-A	Method Blank	106	127	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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

Matrix: Solid Prep Type: Total/NA

_		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
		1001	OIFHI	
Lab Sample ID	Client Sample ID			
890-1555-A-1-E MSD	Matrix Spike Duplicate			
Surrogate Legend				
1CO = 1-Chlorooctane				

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OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1546-1 SDG: 31402909.16 Project/Site: NoCaster 19 Federal 004h

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11824/5-A

Matrix: Solid

Analysis Batch: 11888

Lab Sample ID: LCS 880-11824/1-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11824

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 12:41	•
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 12:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 12:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/10/21 09:30	11/10/21 12:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/21 09:30	11/10/21 12:41	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/21 09:30	11/10/21 12:41	

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	11/10/21 09:3	30 11/10/21 12:41	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/10/21 09:	30 11/10/21 12:41	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11824

Matrix: Solid **Analysis Batch: 11888**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09671	-	mg/Kg		97	70 - 130	
Toluene	0.100	0.1024		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-11824/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 11888

Prep Type: Total/NA Prep Batch: 11824

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09531		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1067		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1005		mg/Kg		100	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 880-8100-A-21-A MS

Matrix: Solid

Analysis Batch: 11888

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

Prep Batch: 11824

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.08923		mg/Kg		89	70 - 130	
Toluene	<0.00200	U	0.0998	0.09624		mg/Kg		95	70 - 130	

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Prep Batch: 11824

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1546-1 SDG: 31402909.16 Project/Site: NoCaster 19 Federal 004h

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

Lab Sample ID: 880-8100-A-21-A MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

Matrix: Solid Analysis Batch: 11888

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.1020		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1997		mg/Kg		99	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.09858		mg/Kg		98	70 - 130	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-8100-A-21-B MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 11888										Batch:	11824
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08626		mg/Kg		86	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09392		mg/Kg		93	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09454		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1841		mg/Kg		91	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.08863		mg/Kg		88	70 - 130	11	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

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Sample ID: MB 880-11990/1-A	Client Sample ID: Method Blank
rix: Solid	Prep Type: Total/NA
alysis Batch: 11992	Prep Batch: 11990
MB MB	

Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0 l	U	50.0	mg/Kg		11/11/21 08:21	11/11/21 09:47	1
<50.0 l	U	50.0	mg/Kg		11/11/21 08:21	11/11/21 09:47	1
<50.0 l	U	50.0	mg/Kg		11/11/21 08:21	11/11/21 09:47	1
	<50.0 <50.0	Result Qualifier	<50.0 U 50.0 <50.0	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg 11/11/21 08:21 <50.0 U 50.0 mg/Kg 11/11/21 08:21	<50.0 U 50.0 mg/Kg 11/11/21 08:21 11/11/21 09:47 <50.0 U 50.0 mg/Kg 11/11/21 08:21 11/11/21 09:47

MB MB

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/1	11/21 08:21	11/11/21 09:47	1
o-Terphenyl	127		70 - 130	11/1	11/21 08:21	11/11/21 09:47	1

Lab Sample ID: LCS 880-11990/2-A

Matrix: Solid

Matrix: Solid							Prep Ty	pe: Total/NA
Analysis Batch: 11992							Prep E	Batch: 11990
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	895.5		mg/Kg		90	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	900.5		mg/Kg		90	70 - 130	
C10-C28)								

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Client Sample ID: Lab Control Sample

Job ID: 890-1546-1 Client: WSP USA Inc. Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

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

Lab Sample ID: LCS 880-11990/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11992** Prep Batch: 11990

		LCS	LCS	
Surrogate	•	%Recovery	Qualifier	Limits
1-Chloroo	ctane	84		70 - 130
o-Terpher	nyl	93		70 - 130

Lab Sample ID: LCSD 880-11990/3-A Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Matrix: Solid** Prep Batch: 11990 Analysis Batch: 11992

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	918.9		mg/Kg		92	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	870.9		mg/Kg		87	70 - 130	3	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-1555-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11992** Prep Batch: 11990

Sample Sample Spike MS MS Result Qualifier Analyte Result Qualifier Added Unit %Rec Limits Gasoline Range Organics <50.0 U 997 1100 mg/Kg 108 70 - 130 (GRO)-C6-C10 70 - 130

793.8

mg/Kg

77

997

MS MS

Diesel Range Organics (Over

C10-C28)

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	99	70 - 130

<50.0 U

Lab Sample ID: 890-1555-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11992 Prep Batch: 11990

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1148		ma/Ka					

(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 849.1 mg/Kg

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits

1-Chlorooctane o-Terphenyl

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12129/1-A

Matrix: Solid

Analysis Batch: 12200

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/14/21 01:05

Lab Sample ID: LCS 880-12129/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12200

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 247.4 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-12129/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12200

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: 880-8171-A-1-G MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12200

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 85.1 250 321.0 90 - 110 mg/Kg

Lab Sample ID: 880-8171-A-1-H MSD

Matrix: Solid

Analysis Batch: 12200

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 85.1 318.3 mg/Kg 93 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

GC VOA

Prep Batch: 11824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	5035	
890-1546-2	SS02	Total/NA	Solid	5035	
890-1546-3	SS03	Total/NA	Solid	5035	
890-1546-4	SS04	Total/NA	Solid	5035	
MB 880-11824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8100-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-8100-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8021B	11824
890-1546-2	SS02	Total/NA	Solid	8021B	11824
890-1546-3	SS03	Total/NA	Solid	8021B	11824
890-1546-4	SS04	Total/NA	Solid	8021B	11824
MB 880-11824/5-A	Method Blank	Total/NA	Solid	8021B	11824
LCS 880-11824/1-A	Lab Control Sample	Total/NA	Solid	8021B	11824
LCSD 880-11824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11824
880-8100-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	11824
880-8100-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11824

Analysis Batch: 12338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	Total BTEX	
890-1546-2	SS02	Total/NA	Solid	Total BTEX	
890-1546-3	SS03	Total/NA	Solid	Total BTEX	
890-1546-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015NM Prep	
890-1546-2	SS02	Total/NA	Solid	8015NM Prep	
890-1546-3	SS03	Total/NA	Solid	8015NM Prep	
890-1546-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-11990/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11990/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1555-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1555-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015B NM	11990
890-1546-2	SS02	Total/NA	Solid	8015B NM	11990
890-1546-3	SS03	Total/NA	Solid	8015B NM	11990
890-1546-4	SS04	Total/NA	Solid	8015B NM	11990
MB 880-11990/1-A	Method Blank	Total/NA	Solid	8015B NM	11990
LCS 880-11990/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11990

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-1546-1

Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

GC Semi VOA (Continued)

Analysis Batch: 11992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11990
890-1555-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	11990
890-1555-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11990

Analysis Batch: 12045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015 NM	
890-1546-2	SS02	Total/NA	Solid	8015 NM	
890-1546-3	SS03	Total/NA	Solid	8015 NM	
890-1546-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Soluble	Solid	DI Leach	
890-1546-2	SS02	Soluble	Solid	DI Leach	
890-1546-3	SS03	Soluble	Solid	DI Leach	
890-1546-4	SS04	Soluble	Solid	DI Leach	
MB 880-12129/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8171-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8171-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Soluble	Solid	300.0	12129
890-1546-2	SS02	Soluble	Solid	300.0	12129
890-1546-3	SS03	Soluble	Solid	300.0	12129
890-1546-4	SS04	Soluble	Solid	300.0	12129
MB 880-12129/1-A	Method Blank	Soluble	Solid	300.0	12129
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	300.0	12129
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12129
880-8171-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	12129
880-8171-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12129

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc.

Project/Site: NoCaster 19 Federal 004h

Date Received: 11/08/21 16:15

Job ID: 890-1546-1 SDG: 31402909.16

Lab Sample ID: 890-1546-1

Client Sample ID: SS01 Date Collected: 11/05/21 15:53

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 15:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			12200	11/14/21 01:34	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1546-2

Date Collected: 11/05/21 15:55 Matrix: Solid

Date Received: 11/08/21 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 16:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			12200	11/14/21 01:39	CH	XEN MID

Client Sample ID: SS03 Lab Sample ID: 890-1546-3

Date Collected: 11/05/21 15:57 Date Received: 11/08/21 16:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 18:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		10			12200	11/14/21 01:44	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-1546-4

Date Collected: 11/05/21 15:58 Date Received: 11/08/21 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 18:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 16 of 24

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Client Sample ID: SS04 Lab Sample ID: 890-1546-4 Date Collected: 11/05/21 15:58

Matrix: Solid

Date Received: 11/08/21 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		20			12200	11/14/21 01:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	' '	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: WSP USA Inc.

Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h

SDG: 31402909.16

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

Job ID: 890-1546-1 Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1546-1	SS01	Solid	11/05/21 15:53		
890-1546-2	SS02	Solid	11/05/21 15:55	11/08/21 16:15	0.5
890-1546-3	SS03	Solid	11/05/21 15:57	11/08/21 16:15	0.5
890-1546-4	\$\$04	Solid	11/05/21 15:58	11/08/21 16:15	0.5

Revised Date 051418 Rev 2018 1										
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		4	- 1							
		2	P P P P P P P P P P P P P P P P P P P	128.1		Y	(1) O(1)		Irw	MAN
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Da	ture)	Received by: (Signature)	n Receiv	ature)	by: (Signa	Relinquished by: (Signature)
	previously inglociated.	inco. A minimum charge of \$15,000 will be applied to each project and a charge of \$3 for each sample submitted to xence, but not alrayzed. These terms will be enforced unless pheriodisty inguistics.	Aenco, put not ana	on neminal	o for each sample su	and a charge or	to each project	5.00 Will be applied	n charge of \$/	nco. A minimun
	assigns standard terms and conditions due to circumstances beyond the control	re: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions rvice. 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 the control of 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	any to Xenco, its at xpenses incurred t	lient compa	urchase order from c esponsibility for any	onstitutes a valid p	of samples c	and relinquishment	this document	e: Signature of t
1031/243.1//4/0//4/1 ng		Cd Cr Co Cu Po Min Mo NI Se Ag	As Ba Be C	KA Sb	TCLP / SPLP 6010: 8RCRA Sb As Ba Be	TCLP / S	analyzed	Circle Method(s) and Metal(s) to be analyzed	nod(s) and	Circle Meth
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Discrete			-	1 ×	0.5'	5/21 15;53	11/05/21	S	SS01	S
Sample Comments	Si		BTEX (Numb	Depth	Time ed Sampled	Date X Sampled	on Matrix	Sample Identification	Sample l
lab, if received by 4:30pm	lab		EPA 0		П	Total Containers:		8	Seals:	nple Custody Seals:
TAT starts the day recevied by the	Custody	890-1546 Chain of	=802		7.0-2			و ا	seals:	bler Custody Seals:
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				ners		Ther		16/1.4		nperature (°C):
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					Due Date:	Du		Payton Benner		npler's Name:
					sh:	Rush:). Number:
					Routine \	Ro	09.16	31402909.16		ject Number:
Work Order Notes		ANALYSIS REQUEST			Turn Around		004H	NoCaster 19 Federal 004H	NoCas	ject Name:
Other:	Deliverables: EDD		om, payton.be	@wsp.c	Email: kalei.jennings@wsp.com, payton.benner@wsp.com	Ema		817-683-2503	817-68	one:
RRP Level IV			Midland, Texas 79705		City, State ZIP:		0.	Midland, Texas 79705	Midlan	, State ZIP:
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nts	Work Order Comments		Kalei Jennings	Kal	Bill to: (if different)			Kalei Jennings		ject Manager:
e1_ of1_	2000) www.xenco.com ² age	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	5-0900) Atlanta,G	Z (480-356	32-7550) Phoenix,A	lobbs, NM (575-39	_			
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-5334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	so,TX (915)585-3	10) EL Pas	on,TX (281) 240-42t and,TX (432-704-54	Midla			ABORA	
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Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

eurofins :

Environment Testing

City: Midland Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. SS04 (890-1546-4) SS03 (890-1546-3) SS02 (890-1546-2) SS01 (890-1546-1) Sample Identification - Client ID (Lab ID NoCaster 19 Federal 004h Eurofins Xenco Client Information Deliverable Requested I II III IV Other (specify) Possible Hazard Identification TX, 79701 Shipping/Receiving 432-704-5440(Tel) 1211 W Florida Ave elinquished by elinquished by impty Kit Relinquished by oject Name: Custody Seals Intact: linquished by: (Sub Contract Lab) Custody Seal No Project #: 89000048 Primary Deliverable Rank Due Date Requested 11/12/2021 Phone TAT Requested (days))ate/Time)ate/Time Sample Date 11/5/21 11/5/21 11/5/21 11/5/21 Mountain 15 57 Mountain 15 55 Mountain 15 58 Mountain Sample G=grab) (C=comp, Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Lab PM Kramer Jessica essica.kramer@eurofinset.com Field Filtered Sample (Yes or No) Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Time Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH × \times × Cooler Temperature(s) °C and Other Remarks. Received by Return To Client × × × 300_ORGFM_28D/DI_LEACH Chloride × × × \times × 8021B/5035FP_Calc BTEX × × Total_BTEX_GCV × × Analysis Requested 8015MOD_Calc × × × × Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Archive For والتدو 4 G Amchior
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor Page Page 1 of 1 COC No: 890-500 1 Preservation Codes 890-1546-1 NaOH If the laboratory does not currently should be brought to Eurofins Xenco N None
O ASNBO2
P Na204S
Q Na2503
R Na25203
S H25203
S H25204
T TSP Dodecahydrate
U Acetone
V-MCAA
W pH 4-5
Z other (specify) Company Company Ver: 06/08/202 Months

Login Sample Receipt Checklist

 Client: WSP USA Inc.
 Job Number: 890-1546-1

 SDG Number: 31402909.16

Login Number: 1546 List Source: Eurofins Xenco, Carlsbad

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.	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	

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1546-1

SDG Number: 31402909.16

Login Number: 1546 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 11/10/21 11:22 AM

Creator: Kramer, Jessica

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	3.8/3.9
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.	True	
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	

Released to Imaging: 12/8/2022 1:21:23 PM

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1960-1

Laboratory Sample Delivery Group: 31402309.16

Client Project/Site: NoCaster 19

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Kalei Jennings

MRAMER

Authorized for release by: 2/28/2022 7:37:43 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 12/8/2022 1:21:23 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.

Project/Site: NoCaster 19

Laboratory Job ID: 890-1960-1

SDG: 31402309.16

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
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. 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 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Job ID: 890-1960-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1960-1

Receipt

The samples were received on 2/16/2022 11:07 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 2.4° C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19724 and analytical batch 880-20289 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19826 and analytical batch 880-19863 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-19826 and analytical batch 880-19863 were outside control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-19826/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19794 and analytical batch 880-19891 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19794 and analytical batch 880-19891 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

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Lab Sample ID: 890-1960-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH01

Date Collected: 02/15/22 11:42 Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			02/18/22 09:30	02/25/22 22:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/25/22 22:38	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/28/22 18:47	1
Analyte Total TPH		Qualifier	RL	Unit mg/Kg	D	Prepared	Analyzed 02/28/22 20:00	Dil Fa
			30.0	mg/rvg			02/20/22 20:00	'
Method: 8015B NM - Diesel Rang	• •							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0	mg/Kg		02/18/22 09:15	02/21/22 11:42	
Diesel Range Organics (Over C10-C28)	113	*1 F1	50.0	mg/Kg		02/18/22 09:15	02/21/22 11:42	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	113 <50.0		50.0 50.0	mg/Kg mg/Kg		02/18/22 09:15	02/21/22 11:42	1
C10-C28)		U		0 0				1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	0 0		02/18/22 09:15	02/21/22 11:42	1 1 1 <i>Dil Fac</i>
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0 <i>Limits</i>	0 0		02/18/22 09:15 Prepared	02/21/22 11:42 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 109 113	U Qualifier	50.0 Limits 70 - 130	0 0		02/18/22 09:15 Prepared 02/18/22 09:15	02/21/22 11:42 Analyzed 02/21/22 11:42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <p>**Recovery 109 113 omatography -</p>	U Qualifier	50.0 Limits 70 - 130	0 0	<u>D</u>	02/18/22 09:15 Prepared 02/18/22 09:15	02/21/22 11:42 Analyzed 02/21/22 11:42	1 Dil Fac

Client Sample ID: BH01A

Date Collected: 02/15/22 11:54

Date Received: 02/16/22 11:07

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			02/18/22 09:30	02/25/22 22:59	1

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Lab Sample ID: 890-1960-2

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Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH01A Lab Sample ID: 890-1960-2

Date Collected: 02/15/22 11:54

Date Received: 02/16/22 11:07

Matrix: Solid

Sample Depth: 3

Total BTEX

Method: 8021B - Volatile Organic	Compounds ((GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130			02/18/22 09:30	02/25/22 22:59	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8015 NM - Diesel Range C	Organics (DRC	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1

0.00400

mg/Kg

<0.00400 U

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 12:44	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			02/18/22 09:15	02/21/22 12:44	1

o-Terphenyl	106	70 - 130		(02/18/22 09:15	02/21/22 12:44	1
Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble						
Analyto	Pocult Qualifier	DI	Unit	n	Droparod	Analyzod	Dil Eac

 Analyte
 Result Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 1430
 25.1
 mg/Kg
 02/21/22 22:13
 5

 Client Sample ID: BH01B

Date Collected: 02/15/22 12:00 Date Received: 02/16/22 11:07

Sample Depth: 5

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			02/18/22 09:30	02/25/22 23:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/25/22 23:19	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	1

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Analyzed

02/28/22 20:00

Matrix: Solid

RL

49.9

Unit

mg/Kg

Prepared

Result Qualifier

<49.9 U

Dil Fac

3

5

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02/28/22 18:47

9

11

13

-4

Lab Sample ID: 890-1960-3

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH01B

Date Collected: 02/15/22 12:00 Date Received: 02/16/22 11:07

Sample Depth: 5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			02/18/22 09:15	02/21/22 13:04	1
o-Terphenyl	110		70 - 130			02/18/22 09:15	02/21/22 13:04	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		4.98	mg/Kg			02/21/22 22:19	1

Client Sample ID: BH02 Lab Sample ID: 890-1960-4 Date Collected: 02/15/22 12:09 Matrix: Solid

Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			02/18/22 09:30	02/25/22 23:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/25/22 23:40	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/28/22 20:00	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			02/18/22 09:15	02/21/22 13:25	1

Lab Sample ID: 890-1960-4

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH02

Date Collected: 02/15/22 12:09 Date Received: 02/16/22 11:07

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	30.5	4.96	mg/Kg			02/21/22 22:38	1			

Client Sample ID: BH02A Lab Sample ID: 890-1960-5 Matrix: Solid

Date Collected: 02/15/22 12:16 Date Received: 02/16/22 11:07

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 00:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 00:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/18/22 09:30	02/26/22 00:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 09:30	02/26/22 00:00	1
· Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 13:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 13:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			02/18/22 09:15	02/21/22 13:45	1
o-Terphenyl	97		70 - 130			02/18/22 09:15	02/21/22 13:45	1
Method: 300.0 - Anions, Ion Chro								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.05	mg/Kg			02/21/22 22:44	1

Lab Sample ID: 890-1960-6

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH02B

Date Collected: 02/15/22 12:21 Date Received: 02/16/22 11:07

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 00:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 00:21	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			02/18/22 09:30	02/26/22 00:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/26/22 00:21	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range					_			
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/22 20:00	
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			02/28/22 20:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	02/28/22 20:00 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 14:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 14:06 02/21/22 14:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 14:06 02/21/22 14:06	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared	02/28/22 20:00 Analyzed 02/21/22 14:06 02/21/22 14:06 02/21/22 14:06 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 14:06 02/21/22 14:06 Analyzed 02/21/22 14:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 14:06 02/21/22 14:06 Analyzed 02/21/22 14:06	Dil Face Dil Face Dil Face Dil Face Dil Face Dil Face

Client Sample ID: BH03

Date Collected: 02/15/22 12:29 Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/18/22 09:30	02/26/22 00:42	1

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Lab Sample ID: 890-1960-7

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH03 Lab Sample ID: 890-1960-7

Date Collected: 02/15/22 12:29 Matrix: Solid
Date Received: 02/16/22 11:07

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds	(GC)	(Continued)	
Wictilda, 602 1D - Volatile Organic Compounds	100)	(Oontinucu)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	02/18/22 09:30	02/26/22 00:42	1

ı						
	Method:	Total	RTFY	- Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	1

Method: 8015 NM - Diesel Range Organics (I	DRO)	(GC)
method. of to this - Dieser Range Organics (i	יוטוט	(00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/28/22 20:00	1

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Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOI	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	70 - 130	02/18/22 09:15	02/21/22 14:26	1
o-Terphenyl	113	70 - 130	02/18/22 09:15	02/21/22 14:26	1

Method: 300.0 - Anions, Ion	Chromatography - Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	689		5.05	mg/Kg			02/21/22 22:57	1

Client Sample ID: BH03A

Date Collected: 02/15/22 12:34

Lab Sample ID: 890-1960-8

Matrix: Solid

Date Collected: 02/15/22 12:34 Date Received: 02/16/22 11:07

Sample Depth: 3

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/18/22 09:30	02/26/22 01:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130			02/18/22 09:30	02/26/22 01:02	1

Mothod:	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			02/28/22 18:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1

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Lab Sample ID: 890-1960-8

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH03A

Date Collected: 02/15/22 12:34 Date Received: 02/16/22 11:07

Sample Depth: 3

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 14:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			02/18/22 09:15	02/21/22 14:47	1
o-Terphenyl	115		70 - 130			02/18/22 09:15	02/21/22 14:47	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		4.97	mg/Kg			02/21/22 23:03	1

Client Sample ID: BH03B Lab Sample ID: 890-1960-9 Matrix: Solid

Date Collected: 02/15/22 12:39 Date Received: 02/16/22 11:07

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/18/22 09:30	02/26/22 01:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 09:30	02/26/22 01:23	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 15:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			02/18/22 09:15	02/21/22 15:08	1
o-Terphenyl	123		70 - 130			02/18/22 09:15	02/21/22 15:08	1

Job ID: 890-1960-1

Client: WSP USA Inc. Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH03B Lab Sample ID: 890-1960-9

Date Collected: 02/15/22 12:39 Matrix: Solid Date Received: 02/16/22 11:07

Sample Depth: 5

Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.0		4.95	mg/Kg			02/21/22 23:10	1

Lab Sample ID: 890-1960-10 Client Sample ID: BH04

Date Collected: 02/15/22 12:51 Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 01:44	
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 01:44	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 01:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/26/22 01:44	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 01:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/26/22 01:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			02/18/22 09:30	02/26/22 01:44	
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/26/22 01:44	
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/28/22 18:47	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
•		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/22 20:00	
Analyte Total TPH		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result < 50.0 ge Organics (D)	Qualifier U			D	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result < 50.0 ge Organics (D)	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			02/28/22 20:00	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	02/28/22 20:00 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 15:28	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 15:28 02/21/22 15:28	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 15:28 02/21/22 15:28	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U RO) (GC) Qualifier U U *1	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared	02/28/22 20:00 Analyzed 02/21/22 15:28 02/21/22 15:28 02/21/22 15:28 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 15:28 02/21/22 15:28 02/21/22 15:28 Analyzed 02/21/22 15:28	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 15:28 02/21/22 15:28 02/21/22 15:28 Analyzed 02/21/22 15:28	Dil Fa

Lab Sample ID: 890-1960-11

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH04A

Date Collected: 02/15/22 12:57 Date Received: 02/16/22 11:07

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:08	-
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:08	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:08	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:08	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:08	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			02/18/22 09:30	02/26/22 03:08	
1,4-Difluorobenzene (Surr)	93		70 - 130			02/18/22 09:30	02/26/22 03:08	
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 18:47	
Analyto	Pocult	Qualifier	DI	Unit	n	Dronarod	Analyzod	Dil Fa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH			RL 49.9	Mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/22 20:00	
Total TPH	<49.9	U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ranç	<49.9	U			<u>D</u>	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9	RO) (GC) Qualifier	49.9	mg/Kg			02/28/22 20:00	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (DI Result	RO) (GC) Qualifier U	49.9	mg/Kg		Prepared	02/28/22 20:00 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (DI Result <49.9	COO (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 16:09	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (DI Result <49.9	U RO) (GC) Qualifier U V*1	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 16:09 02/21/22 16:09	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (DI Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U V*1	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 16:09 02/21/22 16:09	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 ge Organics (DI Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U V*1	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared	02/28/22 20:00 Analyzed 02/21/22 16:09 02/21/22 16:09 02/21/22 16:09 Analyzed	Dil Fa
	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 109 114	U RO) (GC) Qualifier U V*1 U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 16:09 02/21/22 16:09 Analyzed 02/21/22 16:09	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	que Organics (D) Result <49.9 <49.9 <49.9 *Recovery 109 114 comatography -	U RO) (GC) Qualifier U V*1 U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 16:09 02/21/22 16:09 Analyzed 02/21/22 16:09	Dil Fa

Client Sample ID: BH04B

Date Collected: 02/15/22 13:01

Date Received: 02/16/22 11:07

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/18/22 09:30	02/26/22 03:28	

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Lab Sample ID: 890-1960-12

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH04B Lab Sample ID: 890-1960-12

Date Collected: 02/15/22 13:01 Matrix: Solid Date Received: 02/16/22 11:07

Sample Depth: 5

Method: 8021B - Volatile Organic	c Compounds (GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130			02/18/22 09:30	02/26/22 03:28	1
- Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/28/22 18:47	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1
- Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			02/18/22 09:15	02/21/22 16:30	
, chichodolano	100		70-700			020.22.000	02.222	1

Chloride 12.9 4.97 mg/Kg 02/22/22 10:13 **Client Sample ID: BH05** Lab Sample ID: 890-1960-13

Unit

D

Prepared

Analyzed

Result Qualifier

Date Collected: 02/15/22 15:57 Date Received: 02/16/22 11:07

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 1

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/18/22 09:30	02/26/22 03:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 09:30	02/26/22 03:49	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	

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Dil Fac

Matrix: Solid

Lab Sample ID: 890-1960-13

Lab Sample ID: 890-1960-14

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH05

Date Collected: 02/15/22 15:57 Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			02/18/22 09:15	02/21/22 16:50	1
o-Terphenyl	110		70 - 130			02/18/22 09:15	02/21/22 16:50	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	531		4.96	mg/Kg		•——	02/22/22 10:20	

Client Sample ID: BH05A

Date Collected: 02/15/22 16:01

Date Received: 02/16/22 11:07

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			02/18/22 09:30	02/26/22 04:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130			02/18/22 09:30	02/26/22 04:10	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			02/18/22 09:15	02/21/22 17:11	1

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Lab Sample ID: 890-1960-14

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH05A

Date Collected: 02/15/22 16:01 Date Received: 02/16/22 11:07

Sample Depth: 3

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1	F1	5.00	mg/Kg			02/22/22 10:26	1

Client Sample ID: BH05B

Date Collected: 02/15/22 16:04

Lab Sample ID: 890-1960-15

Matrix: Solid

Date Collected: 02/15/22 16:04 Date Received: 02/16/22 11:07

Sample Depth: 5

Method: 8021B - Volatile Organic	Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		02/18/22 09:30	02/26/22 04:30	
Toluene	<0.00201	U	0.00201	mg/Kg		02/18/22 09:30	02/26/22 04:30	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/18/22 09:30	02/26/22 04:30	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/18/22 09:30	02/26/22 04:30	
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/18/22 09:30	02/26/22 04:30	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/18/22 09:30	02/26/22 04:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			02/18/22 09:30	02/26/22 04:30	
1,4-Difluorobenzene (Surr)	95		70 - 130			02/18/22 09:30	02/26/22 04:30	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/28/22 18:47	
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			02/28/22 20:00	
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:32	
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:32	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 17:32	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130			02/18/22 09:15	02/21/22 17:32	
o-Terphenyl	99		70 - 130			02/18/22 09:15	02/21/22 17:32	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Lab Sample ID: 890-1960-16

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH06

Date Collected: 02/15/22 15:16 Date Received: 02/16/22 11:07

Sample Depth: 1

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			02/18/22 09:30	02/26/22 04:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 09:30	02/26/22 04:51	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	1
	Dogule	Ouglifier	DI	Hnit	_ n	Dranarad	Anglyzod	Dil Eo
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	
Total TPH	Result <50.0		RL 50.0	mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/22 20:00	
	<50.0	U			<u>D</u>	Prepared		
Total TPH	<50.0	U			D_	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0	mg/Kg			02/28/22 20:00	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (D Result	RO) (GC) Qualifier	50.0	mg/Kg		Prepared	02/28/22 20:00 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D) Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D) Result <50.0	RO) (GC) Qualifier U *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0	CONTROL (GC) Qualifier U *1 U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52 02/21/22 17:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	CONTROL (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52 02/21/22 17:52	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D Result <50.0 <50.0 <80.0 %Recovery	CONTROL (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared	02/28/22 20:00 Analyzed 02/21/22 17:52 02/21/22 17:52 02/21/22 17:52 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <110 115 omatography -	CONTROL (GC) Qualifier U *1 U *1 Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52 02/21/22 17:52 Analyzed 02/21/22 17:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <110 115 omatography -	RO) (GC) Qualifier U 1 U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 17:52 02/21/22 17:52 Analyzed 02/21/22 17:52	Dil Fac

Client Sample ID: BH06A

Date Collected: 02/15/22 15:25

Sample Depth: 3

Date Received: 02/16/22 11:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/18/22 09:30	02/26/22 05:11	1

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Lab Sample ID: 890-1960-17

Matrix: Solid

Lab Sample ID: 890-1960-17

Job ID: 890-1960-1

Client: WSP USA Inc. Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH06A

Date Collected: 02/15/22 15:25 Date Received: 02/16/22 11:07

Sample Depth: 3

Method: 8021B - Volatile Organic Compou	nds (GC) (Continued)
Welliou. 002 ID - Volatile Organic Compou	iius (OO) (Ooiitiiiu c u)

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	02/18/22 09:30	02/26/22 05:11	1

Method: Total	RTFX - Tota	I RTFX (Calculation

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404 U	0.00404	mg/Kg			02/28/22 18:47	1

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/28/22 20:00	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOI	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	02/18/22 09:15	02/21/22 18:12	1
o-Terphenyl	100		70 - 130	02/18/22 09:15	02/21/22 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	833		4.96	mg/Kg			02/22/22 11:10	1

Client Sample ID: BH06B Lab Sample ID: 890-1960-18 Matrix: Solid

Date Collected: 02/15/22 15:30 Date Received: 02/16/22 11:07

Sample Depth: 5

motification could be seen as a seen		()						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/18/22 09:30	02/26/22 05:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130			02/18/22 09:30	02/26/22 05:32	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/Ka			02/28/22 18:47	1

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/Kg		-	02/28/22 20:00	1

Lab Sample ID: 890-1960-18

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH06B

Date Collected: 02/15/22 15:30 Date Received: 02/16/22 11:07

Sample Depth: 5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:33	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			02/18/22 09:15	02/21/22 18:33	1
o-Terphenyl	106		70 - 130			02/18/22 09:15	02/21/22 18:33	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		5.05	mg/Kg			02/22/22 11:17	1

Client Sample ID: BH07

Date Collected: 02/15/22 15:36

Lab Sample ID: 890-1960-19

Matrix: Solid

Date Received: 02/16/22 11:07

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Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/18/22 09:30	02/26/22 05:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 09:30	02/26/22 05:52	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 18:47	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)						
Analyte		Qualifier	RL	Unit	_	Dan a second		
			114	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	— -	Prepared	Analyzed 02/28/22 20:00	Dil Fac
Total TPH - Method: 8015B NM - Diesel Rang						Prepared		
Method: 8015B NM - Diesel Rang	ge Organics (D				D	Prepared		1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg			02/28/22 20:00	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg		Prepared	02/28/22 20:00 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 18:53	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <50.0	RO) (GC) Qualifier U *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 18:53	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0 <80.0 %Recovery	RO) (GC) Qualifier U *1	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15 Prepared	02/28/22 20:00 Analyzed 02/21/22 18:53	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D) Result <50.0 <50.0	RO) (GC) Qualifier U *1	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/18/22 09:15 02/18/22 09:15 02/18/22 09:15	02/28/22 20:00 Analyzed 02/21/22 18:53 02/21/22 18:53	Dil Fac 1 1

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Lab Sample ID: 890-1960-19

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH07

Date Collected: 02/15/22 15:36 Date Received: 02/16/22 11:07

Sample Depth: 1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		4.98	mg/Kg			02/22/22 11:23	1

Client Sample ID: BH07A Lab Sample ID: 890-1960-20 Matrix: Solid

Date Collected: 02/15/22 15:41 Date Received: 02/16/22 11:07

Method: 8021B - Volatile Organic	c Compounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 06:13	
Toluene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 06:13	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 06:13	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 06:13	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/18/22 09:30	02/26/22 06:13	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 09:30	02/26/22 06:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			02/18/22 09:30	02/26/22 06:13	
1,4-Difluorobenzene (Surr)	98		70 - 130			02/18/22 09:30	02/26/22 06:13	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	
Analyte Total TPH		Qualifier U		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/22 20:00	Dil Fa
: Method: 8015B NM - Diesel Ran	wa Ownaniaa (Di	BO) (CC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 19:13	
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 19:13	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 19:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
	107		70 - 130			02/18/22 09:15	02/21/22 19:13	
1-Chlorooctane	107							
	109		70 - 130			02/18/22 09:15	02/21/22 19:13	
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	109	Soluble	70 - 130			02/18/22 09:15	02/21/22 19:13	
o-Terphenyl	109 omatography -	Soluble Qualifier	70 ₋ 130 R L	Unit	D	02/18/22 09:15 Prepared	02/21/22 19:13 Analyzed	Dil Fa

Lab Sample ID: 890-1960-21

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH07B

Date Collected: 02/15/22 15:45 Date Received: 02/16/22 11:07

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/24/22 09:00	02/25/22 16:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130			02/24/22 09:00	02/25/22 16:19	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/25/22 20:45	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/21/22 19:16	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 *1	50.0	mg/Kg		02/18/22 14:35	02/19/22 23:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 *1	50.0	mg/Kg		02/18/22 14:35	02/19/22 23:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 14:35	02/19/22 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	78		70 - 130			02/18/22 14:35	02/19/22 23:11	1
1-Chlorooctane						02/18/22 14:35	00/40/00 00 44	
1-Chlorooctane o-Terphenyl	80		70 - 130			02/16/22 14.35	02/19/22 23:11	1
		Soluble	70 - 130			02/16/22 14.33	02/19/22 23:11	1
o-Terphenyl	omatography -	Soluble Qualifier	70 ₋ 130 RL	Unit	D	Prepared	02/19/22 23:11 Analyzed	Dil Fac

Client Sample ID: BH08

Date Collected: 02/15/22 16:12 Date Received: 02/16/22 11:07

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			02/24/22 09:00	02/25/22 16:39	

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Matrix: Solid

Lab Sample ID: 890-1960-22

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH08 Lab Sample ID: 890-1960-22

Date Collected: 02/15/22 16:12 Matrix: Solid Date Received: 02/16/22 11:07

Sample Depth: 1

Method: 8021B - Volatile Organic	Compounds	(GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130			02/24/22 09:00	02/25/22 16:39	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/25/22 20:45	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				•	_		Allalyzou	Diriac
Total TPH	<50.0	U	50.0	mg/Kg	_ <u>-</u>		02/21/22 19:16	1
Total TPH Method: 8015B NM - Diesel Rang								1
	e Organics (D					Prepared		1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (D	RO) (GC) Qualifier	50.0	mg/Kg			02/21/22 19:16	1
Method: 8015B NM - Diesel Rang Analyte	e Organics (D Result <50.0	RO) (GC) Qualifier U *1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/18/22 14:35	02/21/22 19:16 Analyzed 02/20/22 00:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (D Result	RO) (GC) Qualifier U *1	50.0	mg/Kg		Prepared	02/21/22 19:16 Analyzed	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79	70 - 130	02/18/22 14:35	02/20/22 00:12	1
o-Terphenyl	77	70 - 130	02/18/22 14:35	02/20/22 00:12	1

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		4.95	mg/Kg			02/22/22 11:42	1

Client Sample ID: BH08A Lab Sample ID: 890-1960-23 **Matrix: Solid**

Date Collected: 02/15/22 16:16 Date Received: 02/16/22 11:07

Sample Depth: 2

Total TPH

00 U 00 U 00 U 01 U 00 U	0.00200 0.00200 0.00200 0.00401 0.00200	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		02/24/22 09:00 02/24/22 09:00 02/24/22 09:00 02/24/22 09:00	02/25/22 17:00 02/25/22 17:00 02/25/22 17:00 02/25/22 17:00	1 1
00 U 01 U 00 U	0.00200 0.00401 0.00200	mg/Kg mg/Kg		02/24/22 09:00 02/24/22 09:00	02/25/22 17:00	1
01 U 00 U	0.00401 0.00200	mg/Kg		02/24/22 09:00		
00 U	0.00200	5 5			02/25/22 17:00	1
		mg/Kg				
01 U	0.00404	0 0		02/24/22 09:00	02/25/22 17:00	1
	0.00401	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
ry Qualifier	Limits			Prepared	Analyzed	Dil Fac
09	70 - 130			02/24/22 09:00	02/25/22 17:00	1
91	70 - 130			02/24/22 09:00	02/25/22 17:00	1
1						
ult Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
01 U	0.00401	mg/Kg			02/25/22 20:45	1
1	91 n Qualifier	70 - 130 91 70 - 130 n sult Qualifier RL 401 U 0.00401	70 - 130 91 70 - 130 n sult Qualifier RL Unit H01 U 0.00401 mg/Kg	70 - 130 91 70 - 130 n sult Qualifier RL Unit D mg/Kg	70 - 130 02/24/22 09:00 91 70 - 130 02/24/22 09:00 70 - 130 02/24/22 09:00 10 Sult Qualifier RL Unit D Prepared 101 U 0.00401 mg/Kg	109

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02/21/22 19:16

49.9

mg/Kg

<49.9 U

Lab Sample ID: 890-1960-23

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH08A

Date Collected: 02/15/22 16:16 Date Received: 02/16/22 11:07

Sample Depth: 2

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		02/18/22 14:35	02/20/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 14:35	02/20/22 00:33	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 14:35	02/20/22 00:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/18/22 14:35	02/20/22 00:33	1
o-Terphenyl	94		70 - 130			02/18/22 14:35	02/20/22 00:33	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		5.00	mg/Kg			02/22/22 11:48	1

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Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

BFB1 DFBZ1
B80-11356-A-1-E MS Matrix Spike 92 111 B80-11356-A-1-F MSD Matrix Spike Duplicate 93 106 B90-1960-1 BH01 100 98 B90-1960-1 MS BH01 102 100 B90-1960-1 MSD BH01 102 100 B90-1960-2 BH01A 108 95 B90-1960-3 BH01B 102 98 B90-1960-4 BH02 104 98 B90-1960-5 BH02A 103 97 B90-1960-6 BH02B 104 98 B90-1960-7 BH03 103 97 B90-1960-7 BH03 103 97 B90-1960-8 BH03A 101 96
880-11356-A-1-F MSD Matrix Spike Duplicate 93 106 890-1960-1 BH01 100 98 890-1960-1 MS BH01 102 100 890-1960-1 MSD BH01 102 100 890-1960-2 BH01A 108 95 890-1960-3 BH01B 102 98 890-1960-4 BH02 104 98 890-1960-5 BH02A 103 97 890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
B90-1960-1 BH01 100 98 B90-1960-1 MS BH01 102 100 B90-1960-1 MSD BH01 102 100 B90-1960-2 BH01A 108 95 B90-1960-3 BH01B 102 98 B90-1960-4 BH02 104 98 B90-1960-5 BH02A 103 97 B90-1960-6 BH02B 104 98 B90-1960-7 BH03 103 97 B90-1960-8 BH03A 101 96
B90-1960-1 MS BH01 102 100 B90-1960-2 BH01A 108 95 B90-1960-3 BH01B 102 98 B90-1960-4 BH02 104 98 B90-1960-5 BH02A 103 97 B90-1960-6 BH02B 104 98 B90-1960-7 BH03 103 97 B90-1960-8 BH03A 101 96
890-1960-1 MSD BH01 102 100 890-1960-2 BH01A 108 95 890-1960-3 BH01B 102 98 890-1960-4 BH02 104 98 890-1960-5 BH02A 103 97 890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
890-1960-2 BH01A 108 95 890-1960-3 BH01B 102 98 890-1960-4 BH02 104 98 890-1960-5 BH02A 103 97 890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
890-1960-3 BH01B 102 98 890-1960-4 BH02 104 98 890-1960-5 BH02A 103 97 890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
890-1960-4 BH02 104 98 890-1960-5 BH02A 103 97 890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
BH02A 103 97 B90-1960-6 BH02B 104 98 B90-1960-7 BH03 103 97 B90-1960-8 BH03A 101 96
890-1960-6 BH02B 104 98 890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
890-1960-7 BH03 103 97 890-1960-8 BH03A 101 96
890-1960-8 BH03A 101 96
390-1960-9 BH03B 103 97
890-1960-10 BH04 104 98
890-1960-11 BH04A 106 93
390-1960-12 BH04B 107 92
890-1960-13 BH05 103 97
390-1960-14 BH05A 114 93
390-1960-15 BH05B 105 95
890-1960-16 BH06 102 97
390-1960-17 BH06A 103 99
890-1960-18 BH06B 113 95
390-1960-19 BH07 101 97
390-1960-20 BH07A 106 98
890-1960-21 BH07B 112 95
890-1960-22 BH08 115 93
890-1960-23 BH08A 109 91
LCS 880-19724/1-A Lab Control Sample 103 101
LCS 880-19725/1-A Lab Control Sample 86 107
LCSD 880-19724/2-A Lab Control Sample Dup 101 90
LCSD 880-19725/2-A Lab Control Sample Dup 85 110
MB 880-19724/5-A Method Blank 99 96
MB 880-19725/5-A Method Blank 109 102
MB 880-20196/5-A Method Blank 95 95
Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1960-1	BH01	109	113
890-1960-1 MS	BH01	104	96
890-1960-1 MSD	BH01	100	92
890-1960-2	BH01A	103	106
890-1960-3	BH01B	105	110

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

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

Matrix: Solid Prep Type: Total/NA

		400:	OTD!!!	Percent Surrogate Recovery (Acceptance Lim
	011 40 415	1CO1	OTPH1	
o-1960-4	Client Sample ID BH02	<u>(70-130)</u>	(70-130) 109	
0-1960-5	BH02A	94	97	
0-1960-6	BH02B	104	111	
0-1960-7	BH03	110	113	
0-1960-8	BH03A	111	115	
0-1960-9	BH03B	118	123	
0-1960-10	BH04	122	128	
0-1960-11	BH04A	109	114	
0-1960-12	BH04B	103	107	
0-1960-13	BH05	105	110	
0-1960-14	BH05A	101	104	
0-1960-15	BH05B	98	99	
0-1960-16	BH06	110	115	
0-1960-17	BH06A	98	100	
0-1960-18	ВН06В	105	106	
0-1960-19	BH07	106	111	
0-1960-20	BH07A	107	109	
0-1960-21	внотв	78	80	
0-1960-21 MS	внотв	79	83	
0-1960-21 MSD	ВН07В	90	96	
0-1960-22	BH08	79	77	
0-1960-23	BH08A	95	94	
CS 880-19794/2-A	Lab Control Sample	103	109	
CSD 880-19794/3-A	Lab Control Sample Dup	102	111	
B 880-19794/1-A	Method Blank	105	113	
Surrogate Legend				

OTPH = o-Terphenyl

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-19826/2-A	Lab Control Sample	126	134 S1+	
LCSD 880-19826/3-A	Lab Control Sample Dup	94	103	
MB 880-19826/1-A	Method Blank	96	100	
Surrogate Legend				
1CO = 1-Chlorooctane				

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19724/5-A

Lab Sample ID: LCS 880-19724/1-A

Lab Sample ID: LCSD 880-19724/2-A

Matrix: Solid

m-Xylene & p-Xylene

Matrix: Solid

Analysis Batch: 20289

o-Xylene

Analysis Batch: 20289

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19724

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/25/22 22:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 09:30	02/25/22 22:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	0	2/18/22 09:30	02/25/22 22:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	0	2/18/22 09:30	02/25/22 22:16	1

Client Sample ID: Lab Control Sample

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 19724

Analysis Batch: 20289 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1109 mg/Kg 111 70 - 130 Toluene 0.100 0.1068 mg/Kg 107 70 - 130 0.100 0.1049 Ethylbenzene mg/Kg 105 70 - 130

0.2171

0.1069

0.200

0.100

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19724

109

107

mg/Kg

mg/Kg

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	8	35
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	6	35
Ethylbenzene	0.100	0.09904		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.1005		mg/Kg		101	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: 890-1960-1 MS

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 19724

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.100	0.08339		mg/Kg		83	70 - 130	
Toluene	<0.00198	U	0.100	0.07764		mg/Kg		77	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

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

Lab Sample ID: 890-1960-1 MS **Matrix: Solid**

Analysis Batch: 20289

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 19724

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00198 U 0.100 0.07096 71 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00397 0.201 0.1153 F1 mg/Kg 57 70 - 130 0.100 o-Xylene <0.00198 U 0.07878 mg/Kg 78 70 - 130

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 19724

Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 0.08074 81 Benzene <0.00198 U mg/Kg 70 - 130 3 35 Toluene <0.00198 U 0.100 0.07557 75 70 - 130 35 mg/Kg 3 Ethylbenzene <0.00198 U 0.100 0.07013 mg/Kg 70 70 - 130 35 0.200 0.1195 F1 60 70 - 130 35 m-Xylene & p-Xylene <0.00397 UF1 mg/Kg 0.100 o-Xylene <0.00198 U 0.07891 79 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-19725/5-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19725

MB	MR

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 10:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 09:00	02/25/22 10:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 09:00	02/25/22 10:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/24/22 09:00	02/25/22 10:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/24/22 09:00	02/25/22 10:25	1

Lab Sample ID: LCS 880-19725/1-A

Analysis Batch: 20287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19725

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Toluene	0.100	0.08952		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08898		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130

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MS MS

Lab Sample ID: 890-1960-1 MSD

Matrix: Solid

Analysis Batch: 20289

Matrix: Solid

Analysis Batch: 20287

Matrix: Solid

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

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

Lab Sample ID: LCS 880-19725/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 20287** Prep Batch: 19725

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.08954 90 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 86 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 107

Lab Sample ID: LCSD 880-19725/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20287** Prep Batch: 19725

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit D Benzene 0.100 0.1085 mg/Kg 108 70 - 130 0 35 Toluene 0.100 0.08803 mg/Kg 88 70 - 130 2 35 Ethylbenzene 0.100 0.08742 mg/Kg 87 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.1788 mg/Kg 89 70 - 130 35 0.100 0.08779 88 70 - 130 2 35 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 85 70 - 130 1,4-Difluorobenzene (Surr) 110 70 - 130

Lab Sample ID: 880-11356-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 20287

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0990	0.1104		mg/Kg		112	70 - 130	
Toluene	< 0.00199	U	0.0990	0.09183		mg/Kg		92	70 - 130	
Ethylbenzene	0.00258		0.0990	0.09203		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1885		mg/Kg		93	70 - 130	
o-Xylene	0.00237		0.0990	0.09318		mg/Kg		92	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 92 70 - 130 1,4-Difluorobenzene (Surr) 111

Lab Sample ID: 880-11356-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 20287

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Limit Added Result Qualifier Analyte Unit %Rec Limits RPD Benzene <0.00199 U 0.0992 0.1074 mg/Kg 108 70 - 130 3 35 0.0992 0.09362 Toluene <0.00199 U 93 70 - 1302 35 mg/Kg Ethylbenzene 0.00258 0.0992 0.09517 mg/Kg 93 70 - 130 3 35 m-Xylene & p-Xylene <0.00398 0.198 0.1978 mg/Kg 98 70 - 1305 35 o-Xylene 0.00237 0.0992 0.09806 mg/Kg 96 70 - 130 35

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 19725

Prep Batch: 19725

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

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

Lab Sample ID: 880-11356-A-1-F MSD

Lab Sample ID: MB 880-20196/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 20287

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19725

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20196

Analysis Batch: 20289

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 02/24/22 10:19 02/25/22 11:22 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 02/24/22 10:19 02/25/22 11:22 <0.00200 U 0.00200 02/24/22 10:19 02/25/22 11:22 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/24/22 10:19 02/25/22 11:22 o-Xylene <0.00200 U 0.00200 mg/Kg 02/24/22 10:19 02/25/22 11:22 Xylenes, Total <0.00400 U 0.00400 mg/Kg 02/24/22 10:19 02/25/22 11:22

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/24/22 10:19	02/25/22 11:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/24/22 10:19	02/25/22 11:22	1

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

Lab Sample ID: MB 880-19794/1-A

Matrix: Solid

Analysis Batch: 19891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19794

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 10:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 10:40	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 10:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/18/22 09:15	02/21/22 10:40	1
o-Terphenyl	113		70 - 130	02/18/22 09:15	02/21/22 10:40	1

Lab Sample ID: LCS 880-19794/2-A **Matrix: Solid**

Analysis Batch: 19891

Prep Batch: 19794

ı		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	1000	818.6		mg/Kg		82	70 - 130	
	(GRO)-C6-C10								
	Diesel Range Organics (Over	1000	1004		mg/Kg		100	70 - 130	
ı	040 000)								

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

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Prep Type: Total/NA

Job ID: 890-1960-1 Client: WSP USA Inc. Project/Site: NoCaster 19 SDG: 31402309.16

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

Lab Sample ID: LCSD 880-19794/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 19891 Prep Type: Total/NA Prep Batch: 19794

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	997.8		mg/Kg		100	70 - 130	20	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1271	*1	mg/Kg		127	70 - 130	23	20
C10 C28)									

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 890-1960-1 MS **Client Sample ID: BH01** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 19891

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U F1 1000 180 70 - 130 Gasoline Range Organics 1833 F1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 113 *1 F1 1000 1456 F1 mg/Kg 134 70 - 130

C10-C28)

	MS	MS			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	104		70 - 130		
o-Terphenyl	96		70 - 130		

Lab Sample ID: 890-1960-1 MSD Client Sample ID: BH01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 19891

Prep Batch: 19794 Sample Sample Spike MSD MSD %Rec. **RPD** Added Result Qualifier Limit Analyte Result Qualifier Unit %Rec Limits RPD <50.0 U F1 1562 F1 Gasoline Range Organics 998 154 20 70 - 130 16 mg/Kg (GRO)-C6-C10 113 *1 F1 998 1407 130 70 - 130 3 20 Diesel Range Organics (Over mg/Kg

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-19826/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 19863

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/18/22 14:35	02/19/22 22:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/18/22 14:35	02/19/22 22:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 14:35	02/19/22 22:04	1

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Prep Batch: 19826

Prep Batch: 19794

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

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

Lab Sample ID: MB 880-19826/1-A

Matrix: Solid

Analysis Batch: 19863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19826

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130		02/18/22 14:35	02/19/22 22:04	1
o-Terphenyl	100		70 - 130	C	02/18/22 14:35	02/19/22 22:04	1

Lab Sample ID: LCS 880-19826/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 19863

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

Prep Batch: 19826

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1174		mg/Kg		117	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1072		mg/Kg		107	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	134	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 19863

Lab Sample ID: LCSD 880-19826/3-A

Prep Batch: 19826

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	904.3	*1	mg/Kg		90	70 - 130	26	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	821.9	*1	mg/Kg		82	70 - 130	26	20	
C10-C28)										

C 10-C26,

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	103	70 - 130

Lab Sample ID: 890-1960-21 MS Client Sample ID: BH07B

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 19863 Prep Batch: 19826

ı		Sample	Sample	Spike	MS	MS				%Rec.		
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Gasoline Range Organics	<50.0	U F1 *1	1000	1127		mg/Kg		110	70 - 130		-
	(GRO)-C6-C10											
	Diesel Range Organics (Over	<50.0	U F1 *1	1000	1300		mg/Kg		130	70 - 130		
ı	040,000)											

C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	79	70 - 130
o-Terphenyl	83	70 - 130

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Job ID: 890-1960-1 Client: WSP USA Inc. Project/Site: NoCaster 19 SDG: 31402309.16

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

Lab Sample ID: 890-1960-21 MSD Client Sample ID: BH07B Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 19863									Prep	Batch:	19826
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F1 *1	998	1341	F1	mg/Kg		132	70 - 130	17	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U F1 *1	998	1497	F1	mg/Kg		150	70 - 130	14	20

mg/Kg

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 90 o-Terphenyl 96 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19804/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 19937

Diesel Range Organics (Over

мв мв

Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			02/21/22 19:59	1

Lab Sample ID: LCS 880-19804/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 19937

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	246.7		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-19804/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 19937

	Spike	LCSD	LCSD			%Rec.		RPD	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	254.4		<u> </u>	102	00 110		20	

Lab Sample ID: 890-1960-1 MS Client Sample ID: BH01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 19937

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	960		1250	2122		ma/Ka		03	90 110	

Lab Sample ID: 890-1960-1 MSD **Client Sample ID: BH01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 19937

Released to Imaging: 12/8/2022 1:21:23 PM

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	960		1250	2278		mg/Kg	_	105	90 - 110	7	20

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH05A

Client Sample ID: BH05A

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-19805/1-A

Matrix: Solid

Analysis Batch: 19939

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 Analyte
 Result
 Qualifier
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 Unit
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 Prepared
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 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 02/22/22 08:38
 1

Lab Sample ID: LCS 880-19805/2-A

Matrix: Solid

Analysis Batch: 19939

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.3 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-19805/3-A

Matrix: Solid

Analysis Batch: 19939

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 261.8 105 mg/Kg 90 - 110

Lab Sample ID: 890-1960-14 MS

Matrix: Solid

Analysis Batch: 19939

Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 41.1 F1 250 246.0 F1 82 90 - 110 mg/Kg

Lab Sample ID: 890-1960-14 MSD

Matrix: Solid

Analysis Batch: 19939

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 41.1 F1 250 297.0 mg/Kg 102 90 - 110 19 20

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

GC VOA

Prep Batch: 19724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1960-1	BH01	Total/NA	Solid	5035	
890-1960-2	BH01A	Total/NA	Solid	5035	
890-1960-3	BH01B	Total/NA	Solid	5035	
890-1960-4	BH02	Total/NA	Solid	5035	
890-1960-5	BH02A	Total/NA	Solid	5035	
890-1960-6	BH02B	Total/NA	Solid	5035	
890-1960-7	BH03	Total/NA	Solid	5035	
890-1960-8	BH03A	Total/NA	Solid	5035	
890-1960-9	внозв	Total/NA	Solid	5035	
890-1960-10	BH04	Total/NA	Solid	5035	
890-1960-11	BH04A	Total/NA	Solid	5035	
890-1960-12	BH04B	Total/NA	Solid	5035	
890-1960-13	BH05	Total/NA	Solid	5035	
890-1960-14	BH05A	Total/NA	Solid	5035	
890-1960-15	BH05B	Total/NA	Solid	5035	
890-1960-16	BH06	Total/NA	Solid	5035	
890-1960-17	BH06A	Total/NA	Solid	5035	
890-1960-18	BH06B	Total/NA	Solid	5035	
890-1960-19	BH07	Total/NA	Solid	5035	
890-1960-20	BH07A	Total/NA	Solid	5035	
MB 880-19724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1960-1 MS	BH01	Total/NA	Solid	5035	
890-1960-1 MSD	BH01	Total/NA	Solid	5035	

Prep Batch: 19725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	ВН07В	Total/NA	Solid	5035	
890-1960-22	BH08	Total/NA	Solid	5035	
890-1960-23	BH08A	Total/NA	Solid	5035	
MB 880-19725/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19725/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19725/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11356-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-11356-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 20196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20196/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 20287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	ВН07В	Total/NA	Solid	8021B	19725
890-1960-22	BH08	Total/NA	Solid	8021B	19725
890-1960-23	BH08A	Total/NA	Solid	8021B	19725
MB 880-19725/5-A	Method Blank	Total/NA	Solid	8021B	19725
LCS 880-19725/1-A	Lab Control Sample	Total/NA	Solid	8021B	19725
LCSD 880-19725/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19725
880-11356-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	19725
880-11356-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19725

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

GC VOA

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8021B	19724
890-1960-2	BH01A	Total/NA	Solid	8021B	19724
890-1960-3	BH01B	Total/NA	Solid	8021B	19724
890-1960-4	BH02	Total/NA	Solid	8021B	19724
890-1960-5	BH02A	Total/NA	Solid	8021B	19724
890-1960-6	BH02B	Total/NA	Solid	8021B	19724
890-1960-7	BH03	Total/NA	Solid	8021B	19724
890-1960-8	BH03A	Total/NA	Solid	8021B	19724
890-1960-9	внозв	Total/NA	Solid	8021B	19724
890-1960-10	BH04	Total/NA	Solid	8021B	19724
890-1960-11	BH04A	Total/NA	Solid	8021B	19724
890-1960-12	BH04B	Total/NA	Solid	8021B	19724
890-1960-13	BH05	Total/NA	Solid	8021B	19724
890-1960-14	BH05A	Total/NA	Solid	8021B	19724
890-1960-15	BH05B	Total/NA	Solid	8021B	19724
890-1960-16	BH06	Total/NA	Solid	8021B	19724
890-1960-17	BH06A	Total/NA	Solid	8021B	19724
890-1960-18	BH06B	Total/NA	Solid	8021B	19724
890-1960-19	BH07	Total/NA	Solid	8021B	19724
890-1960-20	BH07A	Total/NA	Solid	8021B	19724
MB 880-19724/5-A	Method Blank	Total/NA	Solid	8021B	19724
MB 880-20196/5-A	Method Blank	Total/NA	Solid	8021B	20196
LCS 880-19724/1-A	Lab Control Sample	Total/NA	Solid	8021B	19724
LCSD 880-19724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19724
890-1960-1 MS	BH01	Total/NA	Solid	8021B	19724
890-1960-1 MSD	BH01	Total/NA	Solid	8021B	19724

Analysis Batch: 20370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	ВН07В	Total/NA	Solid	Total BTEX	
890-1960-22	BH08	Total/NA	Solid	Total BTEX	
890-1960-23	BH08A	Total/NA	Solid	Total BTEX	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1960-1	BH01	Total/NA	Solid	Total BTEX	-
390-1960-2	BH01A	Total/NA	Solid	Total BTEX	
390-1960-3	BH01B	Total/NA	Solid	Total BTEX	
390-1960-4	BH02	Total/NA	Solid	Total BTEX	
390-1960-5	BH02A	Total/NA	Solid	Total BTEX	
390-1960-6	BH02B	Total/NA	Solid	Total BTEX	
390-1960-7	BH03	Total/NA	Solid	Total BTEX	
390-1960-8	BH03A	Total/NA	Solid	Total BTEX	
390-1960-9	ВН03В	Total/NA	Solid	Total BTEX	
390-1960-10	BH04	Total/NA	Solid	Total BTEX	
390-1960-11	BH04A	Total/NA	Solid	Total BTEX	
390-1960-12	ВН04В	Total/NA	Solid	Total BTEX	
390-1960-13	BH05	Total/NA	Solid	Total BTEX	
390-1960-14	BH05A	Total/NA	Solid	Total BTEX	
390-1960-15	BH05B	Total/NA	Solid	Total BTEX	
390-1960-16	BH06	Total/NA	Solid	Total BTEX	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

GC VOA (Continued)

Analysis Batch: 20556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-17	BH06A	Total/NA	Solid	Total BTEX	
890-1960-18	ВН06В	Total/NA	Solid	Total BTEX	
890-1960-19	BH07	Total/NA	Solid	Total BTEX	
890-1960-20	ВН07А	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 19794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015NM Prep	
890-1960-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1960-3	BH01B	Total/NA	Solid	8015NM Prep	
890-1960-4	BH02	Total/NA	Solid	8015NM Prep	
890-1960-5	BH02A	Total/NA	Solid	8015NM Prep	
890-1960-6	BH02B	Total/NA	Solid	8015NM Prep	
890-1960-7	BH03	Total/NA	Solid	8015NM Prep	
890-1960-8	BH03A	Total/NA	Solid	8015NM Prep	
890-1960-9	BH03B	Total/NA	Solid	8015NM Prep	
890-1960-10	BH04	Total/NA	Solid	8015NM Prep	
890-1960-11	BH04A	Total/NA	Solid	8015NM Prep	
890-1960-12	BH04B	Total/NA	Solid	8015NM Prep	
890-1960-13	BH05	Total/NA	Solid	8015NM Prep	
890-1960-14	BH05A	Total/NA	Solid	8015NM Prep	
890-1960-15	BH05B	Total/NA	Solid	8015NM Prep	
890-1960-16	BH06	Total/NA	Solid	8015NM Prep	
890-1960-17	BH06A	Total/NA	Solid	8015NM Prep	
890-1960-18	BH06B	Total/NA	Solid	8015NM Prep	
890-1960-19	BH07	Total/NA	Solid	8015NM Prep	
890-1960-20	BH07A	Total/NA	Solid	8015NM Prep	
MB 880-19794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1960-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-1960-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 19826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015NM Prep	
890-1960-22	BH08	Total/NA	Solid	8015NM Prep	
890-1960-23	BH08A	Total/NA	Solid	8015NM Prep	
MB 880-19826/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19826/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19826/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1960-21 MS	ВН07В	Total/NA	Solid	8015NM Prep	
890-1960-21 MSD	ВН07В	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015B NM	19826
890-1960-22	BH08	Total/NA	Solid	8015B NM	19826
890-1960-23	BH08A	Total/NA	Solid	8015B NM	19826

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Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

GC Semi VOA (Continued)

Analysis Batch: 19863 (Continued)

Lab Sample ID MB 880-19826/1-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 19826
LCS 880-19826/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19826
LCSD 880-19826/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19826
890-1960-21 MS	ВН07В	Total/NA	Solid	8015B NM	19826
890-1960-21 MSD	BH07B	Total/NA	Solid	8015B NM	19826

Analysis Batch: 19891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015B NM	19794
890-1960-2	BH01A	Total/NA	Solid	8015B NM	19794
890-1960-3	BH01B	Total/NA	Solid	8015B NM	19794
890-1960-4	BH02	Total/NA	Solid	8015B NM	19794
890-1960-5	BH02A	Total/NA	Solid	8015B NM	19794
890-1960-6	BH02B	Total/NA	Solid	8015B NM	19794
890-1960-7	BH03	Total/NA	Solid	8015B NM	19794
890-1960-8	BH03A	Total/NA	Solid	8015B NM	19794
890-1960-9	ВН03В	Total/NA	Solid	8015B NM	19794
890-1960-10	BH04	Total/NA	Solid	8015B NM	19794
890-1960-11	BH04A	Total/NA	Solid	8015B NM	19794
890-1960-12	BH04B	Total/NA	Solid	8015B NM	19794
890-1960-13	BH05	Total/NA	Solid	8015B NM	19794
890-1960-14	BH05A	Total/NA	Solid	8015B NM	19794
890-1960-15	BH05B	Total/NA	Solid	8015B NM	19794
890-1960-16	BH06	Total/NA	Solid	8015B NM	19794
890-1960-17	BH06A	Total/NA	Solid	8015B NM	19794
890-1960-18	BH06B	Total/NA	Solid	8015B NM	19794
890-1960-19	BH07	Total/NA	Solid	8015B NM	19794
890-1960-20	BH07A	Total/NA	Solid	8015B NM	19794
MB 880-19794/1-A	Method Blank	Total/NA	Solid	8015B NM	19794
LCS 880-19794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19794
LCSD 880-19794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19794
890-1960-1 MS	BH01	Total/NA	Solid	8015B NM	19794
890-1960-1 MSD	BH01	Total/NA	Solid	8015B NM	19794

Analysis Batch: 19992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015 NM	
890-1960-22	BH08	Total/NA	Solid	8015 NM	
890-1960-23	BH08A	Total/NA	Solid	8015 NM	

Analysis Batch: 20572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015 NM	
890-1960-2	BH01A	Total/NA	Solid	8015 NM	
890-1960-3	BH01B	Total/NA	Solid	8015 NM	
890-1960-4	BH02	Total/NA	Solid	8015 NM	
890-1960-5	BH02A	Total/NA	Solid	8015 NM	
890-1960-6	BH02B	Total/NA	Solid	8015 NM	
890-1960-7	BH03	Total/NA	Solid	8015 NM	
890-1960-8	BH03A	Total/NA	Solid	8015 NM	
890-1960-9	BH03B	Total/NA	Solid	8015 NM	

Client: WSP USA Inc. Job ID: 890-1960-1 Project/Site: NoCaster 19 SDG: 31402309.16

GC Semi VOA (Continued)

Analysis Batch: 20572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-10	BH04	Total/NA	Solid	8015 NM	
890-1960-11	BH04A	Total/NA	Solid	8015 NM	
890-1960-12	BH04B	Total/NA	Solid	8015 NM	
890-1960-13	BH05	Total/NA	Solid	8015 NM	
890-1960-14	BH05A	Total/NA	Solid	8015 NM	
890-1960-15	BH05B	Total/NA	Solid	8015 NM	
890-1960-16	BH06	Total/NA	Solid	8015 NM	
890-1960-17	BH06A	Total/NA	Solid	8015 NM	
890-1960-18	BH06B	Total/NA	Solid	8015 NM	
890-1960-19	BH07	Total/NA	Solid	8015 NM	
890-1960-20	BH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Soluble	Solid	DI Leach	
890-1960-2	BH01A	Soluble	Solid	DI Leach	
890-1960-3	BH01B	Soluble	Solid	DI Leach	
890-1960-4	BH02	Soluble	Solid	DI Leach	
890-1960-5	BH02A	Soluble	Solid	DI Leach	
890-1960-6	BH02B	Soluble	Solid	DI Leach	
890-1960-7	BH03	Soluble	Solid	DI Leach	
890-1960-8	ВН03А	Soluble	Solid	DI Leach	
890-1960-9	ВН03В	Soluble	Solid	DI Leach	
890-1960-10	BH04	Soluble	Solid	DI Leach	
MB 880-19804/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19804/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19804/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1960-1 MS	BH01	Soluble	Solid	DI Leach	
890-1960-1 MSD	BH01	Soluble	Solid	DI Leach	

Leach Batch: 19805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1960-11	BH04A	Soluble	Solid	DI Leach	
890-1960-12	BH04B	Soluble	Solid	DI Leach	
890-1960-13	BH05	Soluble	Solid	DI Leach	
890-1960-14	BH05A	Soluble	Solid	DI Leach	
890-1960-15	BH05B	Soluble	Solid	DI Leach	
890-1960-16	BH06	Soluble	Solid	DI Leach	
890-1960-17	BH06A	Soluble	Solid	DI Leach	
390-1960-18	ВН06В	Soluble	Solid	DI Leach	
890-1960-19	BH07	Soluble	Solid	DI Leach	
890-1960-20	ВН07А	Soluble	Solid	DI Leach	
390-1960-21	BH07B	Soluble	Solid	DI Leach	
890-1960-22	BH08	Soluble	Solid	DI Leach	
890-1960-23	BH08A	Soluble	Solid	DI Leach	
MB 880-19805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1960-14 MS	BH05A	Soluble	Solid	DI Leach	

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

HPLC/IC (Continued)

Leach Batch: 19805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-14 MSD	BH05A	Soluble	Solid	DI Leach	

Analysis Batch: 19937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Soluble	Solid	300.0	19804
890-1960-2	BH01A	Soluble	Solid	300.0	19804
890-1960-3	BH01B	Soluble	Solid	300.0	19804
890-1960-4	BH02	Soluble	Solid	300.0	19804
890-1960-5	BH02A	Soluble	Solid	300.0	19804
890-1960-6	BH02B	Soluble	Solid	300.0	19804
890-1960-7	BH03	Soluble	Solid	300.0	19804
890-1960-8	ВН03А	Soluble	Solid	300.0	19804
890-1960-9	ВН03В	Soluble	Solid	300.0	19804
890-1960-10	BH04	Soluble	Solid	300.0	19804
MB 880-19804/1-A	Method Blank	Soluble	Solid	300.0	19804
LCS 880-19804/2-A	Lab Control Sample	Soluble	Solid	300.0	19804
LCSD 880-19804/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19804
890-1960-1 MS	BH01	Soluble	Solid	300.0	19804
890-1960-1 MSD	BH01	Soluble	Solid	300.0	19804

Analysis Batch: 19939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-11	BH04A	Soluble	Solid	300.0	19805
890-1960-12	BH04B	Soluble	Solid	300.0	19805
890-1960-13	BH05	Soluble	Solid	300.0	19805
890-1960-14	BH05A	Soluble	Solid	300.0	19805
890-1960-15	BH05B	Soluble	Solid	300.0	19805
890-1960-16	BH06	Soluble	Solid	300.0	19805
890-1960-17	BH06A	Soluble	Solid	300.0	19805
890-1960-18	вно6в	Soluble	Solid	300.0	19805
890-1960-19	BH07	Soluble	Solid	300.0	19805
890-1960-20	BH07A	Soluble	Solid	300.0	19805
890-1960-21	ВН07В	Soluble	Solid	300.0	19805
890-1960-22	BH08	Soluble	Solid	300.0	19805
890-1960-23	BH08A	Soluble	Solid	300.0	19805
MB 880-19805/1-A	Method Blank	Soluble	Solid	300.0	19805
LCS 880-19805/2-A	Lab Control Sample	Soluble	Solid	300.0	19805
LCSD 880-19805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19805
890-1960-14 MS	BH05A	Soluble	Solid	300.0	19805
890-1960-14 MSD	BH05A	Soluble	Solid	300.0	19805

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Client Sample ID: BH01 Lab Sample ID: 890-1960-1

Date Collected: 02/15/22 11:42 Matrix: Solid Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 22:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 11:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		5			19937	02/21/22 21:54	CH	XEN MID

Client Sample ID: BH01A Lab Sample ID: 890-1960-2 Matrix: Solid

Date Collected: 02/15/22 11:54 Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19724	02/18/22 09:30	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 22:59	KL	XEN MIC
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		5			19937	02/21/22 22:13	CH	XEN MI

Client Sample ID: BH01B Lab Sample ID: 890-1960-3 Date Collected: 02/15/22 12:00 **Matrix: Solid**

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 23:19	KL	XEN MIC
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:19	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1960-4 Date Collected: 02/15/22 12:09

Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 23:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID

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Matrix: Solid

Client Sample ID: BH02 Lab Sample ID: 890-1960-4 Date Collected: 02/15/22 12:09 Matrix: Solid

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:38	CH	XEN MID

Client Sample ID: BH02A Lab Sample ID: 890-1960-5 **Matrix: Solid**

Date Collected: 02/15/22 12:16 Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:44	CH	XEN MID

Client Sample ID: BH02B Lab Sample ID: 890-1960-6

Date Collected: 02/15/22 12:21 **Matrix: Solid** Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:51	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1960-7

Date Collected: 02/15/22 12:29 **Matrix: Solid** Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:26	AJ	XEN MID

Job ID: 890-1960-1

Client: WSP USA Inc. Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH03 Lab Sample ID: 890-1960-7 Date Collected: 02/15/22 12:29

Matrix: Solid Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	19804	02/18/22 10:28	СН	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:57	CH	XEN MID

Client Sample ID: BH03A Lab Sample ID: 890-1960-8

Date Collected: 02/15/22 12:34 **Matrix: Solid**

Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:03	CH	XEN MID

Client Sample ID: BH03B Lab Sample ID: 890-1960-9

Date Collected: 02/15/22 12:39 **Matrix: Solid** Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:10	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1960-10

Date Collected: 02/15/22 12:51 **Matrix: Solid** Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:16	CH	XEN MID

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Client Sample ID: BH04A

Lab Sample ID: 890-1960-11

Date Collected: 02/15/22 12:57

Date Received: 02/16/22 11:07

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:07	CH	XEN MID

Client Sample ID: BH04B

Date Collected: 02/15/22 13:01

Lab Sample ID: 890-1960-12

Matrix: Solid

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:13	CH	XEN MI

Client Sample ID: BH05

Date Collected: 02/15/22 15:57

Lab Sample ID: 890-1960-13

Matrix: Solid

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:20	CH	XEN MID

Client Sample ID: BH05A

Date Collected: 02/15/22 16:01

Lab Sample ID: 890-1960-14

Matrix: Solid

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 04:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID

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Client Sample ID: BH05A

Date Collected: 02/15/22 16:01 Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:26	CH	XEN MID

Client Sample ID: BH05B Lab Sample ID: 890-1960-15

Date Collected: 02/15/22 16:04 Date Received: 02/16/22 11:07

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 4.97 g 5 mL 19724 02/18/22 09:30 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 20289 02/26/22 04:30 KL XEN MID 1 Total/NA Total BTEX 20556 XEN MID Analysis 1 02/28/22 18:47 AJ Total/NA Analysis 8015 NM 20572 02/28/22 20:00 XEN MID ΑJ 1 XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 19794 02/18/22 09:15 DM Total/NA Analysis 8015B NM 19891 02/21/22 17:32 XEN MID AJ1 Soluble Leach DI Leach 4.98 g 50 mL 19805 02/18/22 10:30 CH XEN MID Soluble Analysis 300.0 1 19939 02/22/22 10:45 CH XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1960-16 Date Collected: 02/15/22 15:16 **Matrix: Solid**

Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 04:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		5			19939	02/22/22 10:51	CH	XEN MID

Client Sample ID: BH06A Lab Sample ID: 890-1960-17

Date Collected: 02/15/22 15:25 Date Received: 02/16/22 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g	10 mL	19794 19891	02/18/22 09:15 02/21/22 18:12	DM AJ	XEN MID XEN MID

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Matrix: Solid

Client Sample ID: BH06A

Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-17 Date Collected: 02/15/22 15:25

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 19805 Leach 5.04 g 50 mL 02/18/22 10:30 СН XEN MID 300.0 02/22/22 11:10 Soluble Analysis 1 19939 CH XEN MID

Client Sample ID: BH06B Lab Sample ID: 890-1960-18

Date Collected: 02/15/22 15:30 **Matrix: Solid**

Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:17	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-1960-19

Date Collected: 02/15/22 15:36 **Matrix: Solid** Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:23	CH	XEN MID

Client Sample ID: BH07A Lab Sample ID: 890-1960-20

Date Collected: 02/15/22 15:41 **Matrix: Solid** Date Received: 02/16/22 11:07

	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	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:29	CH	XEN MID

Client Sample ID: BH07B Lab Sample ID: 890-1960-21

Date Collected: 02/15/22 15:45 **Matrix: Solid** Date Received: 02/16/22 11:07

	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	19725	02/24/22 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20287	02/25/22 16:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20370	02/25/22 20:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19992	02/21/22 19:16	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	19826 19863	02/18/22 14:35 02/19/22 23:11	DM AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:36	СН	XEN MID

Lab Sample ID: 890-1960-22 **Client Sample ID: BH08**

Date Collected: 02/15/22 16:12 **Matrix: Solid** Date Received: 02/16/22 11:07

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.95 g 5 mL 19725 02/24/22 09:00 KL XEN MID Total/NA 8021B 5 mL 02/25/22 16:39 XEN MID Analysis 1 5 mL 20287 KLTotal/NA Total BTEX 20370 02/25/22 20:45 Analysis 1 A.I XEN MID Total/NA Analysis 8015 NM 19992 02/21/22 19:16 XEN MID Total/NA 8015NM Prep XEN MID Prep 10.01 g 19826 02/18/22 14:35 DM 10 mL Total/NA Analysis 8015B NM 19863 02/20/22 00:12 AJ XEN MID Soluble XEN MID Leach DI Leach 5.05 g 50 mL 19805 02/18/22 10:30 CH

Client Sample ID: BH08A Lab Sample ID: 890-1960-23 Date Collected: 02/15/22 16:16 **Matrix: Solid**

19939

02/22/22 11:42

CH

XEN MID

Date Received: 02/16/22 11:07

Analysis

300.0

Soluble

	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	19725	02/24/22 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20287	02/25/22 17:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20370	02/25/22 20:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19992	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19826	02/18/22 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/20/22 00:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date				
Texas	NE	NELAP T104704400-21-22 06-30-22						
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w				
the agency does not of	fer certification.	,	, g	ly molade analytes for th				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	y moduce analytee for the				
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Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1960-1

 Project/Site: NoCaster 19
 SDG: 31402309.16

Laboratory

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

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

Sample Summary

Client: WSP USA Inc. Project/Site: NoCaster 19

890-1960-23

BH08A

Job ID: 890-1960-1 SDG: 31402309.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1960-1	BH01	Solid	02/15/22 11:42	02/16/22 11:07	1
890-1960-2	BH01A	Solid	02/15/22 11:54	02/16/22 11:07	3
890-1960-3	BH01B	Solid	02/15/22 12:00	02/16/22 11:07	5
890-1960-4	BH02	Solid	02/15/22 12:09	02/16/22 11:07	1
890-1960-5	BH02A	Solid	02/15/22 12:16	02/16/22 11:07	3
890-1960-6	BH02B	Solid	02/15/22 12:21	02/16/22 11:07	5
890-1960-7	BH03	Solid	02/15/22 12:29	02/16/22 11:07	1
890-1960-8	ВН03А	Solid	02/15/22 12:34	02/16/22 11:07	3
890-1960-9	внозв	Solid	02/15/22 12:39	02/16/22 11:07	5
890-1960-10	BH04	Solid	02/15/22 12:51	02/16/22 11:07	1
890-1960-11	BH04A	Solid	02/15/22 12:57	02/16/22 11:07	3
890-1960-12	BH04B	Solid	02/15/22 13:01	02/16/22 11:07	5
890-1960-13	BH05	Solid	02/15/22 15:57	02/16/22 11:07	1
890-1960-14	BH05A	Solid	02/15/22 16:01	02/16/22 11:07	3
890-1960-15	BH05B	Solid	02/15/22 16:04	02/16/22 11:07	5
890-1960-16	BH06	Solid	02/15/22 15:16	02/16/22 11:07	1
890-1960-17	BH06A	Solid	02/15/22 15:25	02/16/22 11:07	3
890-1960-18	BH06B	Solid	02/15/22 15:30	02/16/22 11:07	5
890-1960-19	BH07	Solid	02/15/22 15:36	02/16/22 11:07	1
890-1960-20	BH07A	Solid	02/15/22 15:41	02/16/22 11:07	3
890-1960-21	ВН07В	Solid	02/15/22 15:45	02/16/22 11:07	5
890-1960-22	BH08	Solid	02/15/22 16:12	02/16/22 11:07	1

Solid

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Chain of Custody

of service. 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 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Phone: Sample Custody Seals: Sampler's Name: P.O. Number: Project Name: Project Manager: Cooler Custody Seals: Received Intact: Project Number Exerco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated City, State ZIP: Company Name: emperature (°C) SAMPLE RECEIPT Relinquished by: (Signature) Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample Identification ВН03А **BH02B BH02A** BH01B BH01A **BH04** BH03B **B**H03 **BH02** BH01 ABCRATORIES Payton Benner 817-683-2503 Kalei Jennings NoCaster 19 Midland, Texas 79705 WSP USA 3300 North A Street Building 1, unit 222 200.8 / 6020: Yes Yes es Temp Blank: ö N_o 31402909.16 0 0 0 0 0 0 0 0 0 Matrix N 3 X XVR (Lee) Received by: (Signature) Sampled 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 02/15/22 Date Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) ö Correction Factor: Total Containers 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd LOD-MM-DOJ Thermometer ID TCLP / SPLP 6010: 8RCRA Sampled 12:51 11:42 12:34 11:54 12:29 12:09 Time 12:16 12:00 12:39 12:21 Wet Ice: Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-333-Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Rush: Routine Email: Kalei jennings@wsp.com Due Date: Turn Around Bill to: (if different) City, State ZIP: Company Name: (Yes Depth Ŋ ω ω ഗ ω ഗ Z 8-16-22-1107 **Number of Containers** Sb As Ba Be Midland, Texas 79705 Kalei Jennings Date/Time WSP USA 3300 North A Street Building 1, unit 222 TPH (EPA 8015) × × × × × BTEX (EPA 0=8021) × × Chloride (EPA 300.0) × Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Relinquished by: (Signature) Ca Cr Co Cu Fe ANALYSIS REQUEST 890-1960 Chain of Custody Pb Mg Mn Mo Ni Program: UST/PST Reporting:Level II [Level III Deliverables: EDD State of Project Received by: (Signature) X Se Work Order No: www.xenco.com ☐PRP ☐Brownfields Work Order Comments Ą SiO2 □ST/UST ADaPT 🗆 Na a 1631 / 245.1 / 7470 / 7471 : Hg Sr TI Sn U V Zn TAT starts the day recevied by the ²age 끃 lab, if received by 4:30pm Sample Comments _ گ Work Order Notes DISCRETE Revised Date 051418 Rev Juperfund □vel IV Date/Time 으

Project Manager: XMZ00 Kalei Jennings

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-62-0-2000)

Bill to: (if different)

Kalei Jennings

Revised Date 051418 Rev 2018.1		6									
		4						V			3
		2	F01	110.22	2:11		3	THE CO	>	1 m	woody.
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	е	Date/Time	D	9)	Received by: (Signature	Received I		: (Signature)	Relinquished by: (Signature)
	eviously negotiated.	zed. These terms will be enforced unless pereviously negotiated.	t not analy.	Xenco, bu	bmitted to	each sample sub	a charge of \$5 to	ach project and	e applied to e	arge of \$75.00 will b	of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be
	s. It assigns stanc⊒ard terms and conditions are due to circum∞stances beyond the control		nco, its affil ncurred by	any to Xe	lient comp	ase order from cl	ites a valid purch	samples constitu	quishment of ost of sample	document and relin	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractor of service. 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
1631 / 245.1 / /4/0 / /4/1 . 119		Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Be	As Ba	;RA Sb	6010: 8RCRA	TCLP / SPLP 6010:	alyzed	s) to be an	(s) and Metal(Circle Method(s) and Metal(s) to be analyzed
Sr TI Sn U V Zn	i K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb MG	a Be B	As Ba	Al Sb	M Texas 11	8RCRA 13PPM	8F	6020:	010 200.8 / 6020:	Total 200.7 / 6010
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DISCRETE			×	×	_	3	15:25	02/15/22	S	à A	вно6А
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Sample Comments			Chloric	TPH (E	Numb	Depth	Time Sampled	Date Sampled	Matrix	tification	Sample Identification
igu, il leceived by Toopin			e (E				Total Containers:	Tota	No N/A	Yes	Sample Custody Seals:
TAT starts the day recevied by the	TAT		PA S		+		Correction Factor:	Corre	No R	Yes	Cooler Custody Seals:
			300.0	_			1	1	S _o	Yes	Received Intact:
))		iners		Mermometer ID				Temperature (°C):
					S	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
				-		ate:	Due Date:		1	Payton Benner	Sampler's Name:
							Rush:				P.O. Number:
							Routine).16	31402909.16		Project Number:
Work Order Notes		ANALYSIS REQUEST	-			Turn Around	Tur			NoCaster 19	Project Name:
Circi	Deliverables: EDD ADar L	Deliv		com	@wsp.	Email: Kalei.jennings@wsp.com	Email:			817-683-2503	Phone:
CART LVEIV	Level III LS1/US1		Midland, Texas 79705	dland, To	<u>N</u>	City, State ZIP:			ıs 79705	Midland, Texas 79705	City, State ZIP:
		3300 North A Street Building 1, unit 222	A Street	00 North	33	Address:		lding 1, unit	Street Bui	3300 North A Street Building 1, unit 222	Address:
RC Juperfund	Program: UST/PST	Prog		WSP USA		Company Name:				WSP USA	Company Name:

Work Order No:

www.xenco.com

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Work Order Comments

Eurofins Carlsbad

1089 N Canal St

13

Chain of Custody Record

eurofins 💸

Environment Testing

State Zip: TX, 79701 Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the abovatory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. BH03A (890-1960-8) BH02B (890-1960-6) BH02A (890-1960-5) BH02 (890-1960-4) BH01B (890-1960-3) BH03B (890-1960-9) BH03 (890-1960-7) BH01A (890-1960-2) BH01 (890-1960-1) mpty Kit Relinquished by ossible Hazard Identification NoCaster 19 Midland 1211 W Florida Ave Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 eliverable Requested I, II III, IV Other (specify) elinquished by: ample Identification - Client ID (Lab ID) 32-704-5440(Tel) Custody Seals Intact. linquished by: inquished by: urofins Environment Testing South Centr hipping/Receiving ient Information ject Name Ύes 공 (Sub Contract Lab Custody Seal No Project #: 89000048 Date/Time Date/Time: Date/Time Primary Deliverable Rank 2 V O Sampler SSOW#: PO # TAT Requested (days): Due Date Requested Phone Sample Date 2/15/22 2/15/22 2/15/22 2/15/22 2/15/22 2/15/22 2/15/22 2/15/22 2/15/22 Mountain 12 34 Mountain 12 29 Mountain 12 00 Mountain 11 54 Mountain 12 39 Date Mountain 12 21 Mountain 12 09 Mountain 12 16 Mountain Sample Time 11 42 (C=comp, G=grab) Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid E-Mail Lab PM jessica.kramer@eurofinset.com Kramer, Jessica Field Filtered Sample (Yes or No) Time: Accreditations Required (See note):
NELAP - Louisiana, NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) × × 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks. Received by × \times × \times × × × Return To Client × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × 8021B/5035FP_Calc BTEX × × × × × Total_BTEX_GCV \times × × × × Analysis Requested 8015MOD_Calc × × × × × × × × × Disposal By Lab State of Origin New Mexico Carrier Tracking No(s): ethod of Shipment Date/Time Archive For Total Number of containers 4 A HCL
B NaOH
C Zn Acetale
D Nitric Acid
E NaOH
F McOH
H Ascorbic Acid
I Ice
J Di Water
K EDTA
L EDA COC No 890-628 1 Page 1 of 3 Preservation Codes: 890-1960-1 Special Instructions/Note N - None
N - None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2SCO3
R Na2SCO3
S - H2SO4
T TSP Dodecahydrate U - Acetone V MCAA Nξ Company Company other (specify) pH 4-5 **Months**

Ver 06/08/2021

Empty Kit Relinquished by

linquished by

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2.10.00

Date/Time Date/Time

Company

Cooler Temperature(s) °C and Other Remarks:

Date/Time Date/Time

> Company Company

Ver: 06/08/2021

elinquished by:

Custody Seals Intact:

Custody Seal No

Yes

8

elinquished by:

Deliverable Requested I II III IV Other (specify)

Primary Deliverable Rank

N

Special Instructions/QC Requirements

Return To Client

Date

Company

Received

lime.

Ossible Hazard Identification

BH06B (890-1960-18) BH06A (890-1960-17) BH06 (890-1960-16) BH05B (890-1960-15) BH05A (890-1960-14)

2/15/22

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Mountain 15 25 Mountain 15 16

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2/15/22 2/15/22 2/15/22

Vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal Bullah

Disposal By Lab

Archive For

Method of Shipment

BH04B (890-1960-12) BH04A (890-1960-11) BH04 (890-1960-10)

BH05 (890-1960-13)

2/15/22

Mountain 16 04

2/15/22 2/15/22

> Solid Solid

Mountain 13 01

Sample Identification - Client ID (Lab ID)

Sample Date

G=grab (C=comp Sample

BT≍Tissue, A≈Al

Type

Matrix

Perform MS/MSD (Yes or No)

8021B/5035FP_Calc BTEX

Total Number of containers

Total_BTEX_GCV

8015MOD_Calc

8015MOD_NM/8015NM_S_Prep Full TPH

300_ORGFM_28D/DI_LEACH Chloride

Preservation Code:

2/15/22

Mountain 12 57

Solid Solid

2/15/22

Phone: 575-988-3199 Fax 575-988-3199

Carlsbad, NM 88220

1089 N Canal St.

State, Zip. TX, 79701

1idland

132-704-5440(Tel)

PO#

TAT Requested (days):

Due Date Requested

VoCaster 19

39000048

SOW# oject #

oject Name

1211 W Florida Ave,

Eurofins Environment Testing South

Shipping/Receiving Client Information

ient Contact

(Sub Contract Lab)

Sampler

none

13 14

Chain of Custody

Kramer Jessica

Lab PM

essica kramer@eurofinset.com

State of Origin New Mexico

Page: Page 2 of 3 COC No 890-628 2

Preservation Codes 390-1960-1 Tracking No(s)

Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas

Analysis Requested

A-HCL
B NaOH
C-Zn Acetate
D Nitric Acid
E-NaHSO4
F-Nachor
H Ascorbic Acid
I-loe
J DI Water
K EDTA

ΝŞ

/ pH 4-5 other (specify)

N None
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2SO3
R Na2SO3
T TSP Dodecahydrate
U Acetone
V - MCAA

Record	
ra 💸	

irofins **Environment Testing**

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Released to Imaging: 12/8/2022 1:21:23 PM

Special Instructions/Note

2/28/2022

Eurofins Carlsbad

1089 N Canal St.	•		•	<u>-</u>	,	_															, o	🔅 eurofins	1	*
Carlsbad NM 88220 Phone 575.088.2100 Fav. 575.088.2100	_	Chain of Custody Record	T Cust	oay Ke	Ċ	Ğ																	Am	America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Jessica		SSICS							୍ଷ	Carrier Tracking No(s)	rack	ing Z	lo(s)				~ 0	COC No 890-628 3		
	Phone:			E-Mail jessica.kramer@eurofinset.com	a.krar	ner©	eur	ofins	et.co	3			zg	State of Origin: New Mexico	exic	8 =		-	l		- 1	Page: Page 3 of 3		
Company Eurofins Environment Testing South Centr				7 ₽	Accreditations Required (See note) NELAP - Louisiana, NELAP	tation:	s Requ	uired ana,	NEL See 1	AP.	Texas	as	ŀ	- 1	- 1	- 1	l				ᆕ	Job #: 890-1960-1		
Address. 1211 W Florida Ave	Due Date Requested 2/22/2022	ă							, l		ysis Requested	R	Ē	š	ă				- 1		_	000	. "	
City Midland	TAT Requested (days):	ys):				\Box	\exists	\neg	\neg		$\neg \uparrow$	\dashv					1		\neg	<u></u>	أنفسي	A - HCL I	0 Z Z	M - Hexane N None O AsNaO2
State, Zip: TX, 79701				, ,,,,,,,																273911	assistana	Nitric Acid NaHSO4	יס פ קלי	la204S la2SO3
Phone 432-704-5440(Tel)	PO#:				,	TPH	le													480	<u> Andreadoria</u>	MeOH Amchlor Ascorbic Acid	┥の刀 ┨Tァ	Va2S2O3 12SO4
Email	WO #				20000000000	p Full	Chloric		• • • • • • • • • • • • • • • • • • • •											Maria Maria	Hanai Dilbari	ice Di Water	<-> ~ .	U Acetone V - MCAA
Project Name: NoCaster 19	Project # 89000048				10 -00 W/m	_S_Pr	EACH	EX													ST., 7830		N 5	pH 4-5 other (specify)
Site:	SSOW#					015NM	D/DI_L	Calc B	v											SW.25.		Other:		
		Sample	Sample Type	Matrix (Wewater Sesolid,	d Filtered omn MS/N	MOD_NM/	ORGFM_2	B/6036FP_	I_BTEX_G	MOD_Calc											il Number			
Sample Identification - Client ID (Lab ID)	Sample Date	43	22	_ئيد	AND HOUSEN	801	300	802	Tota	801		1		4	1			1	1	4	Tot	Special Inst	T.	Special Instructions/Note
ВН07 (890-1960-19)	2/15/22	15 36 Mountain		Solid		×	×	×	×	×				-	. K		ĺ				-		to de direct	
BH07A (890-1960-20)	2/15/22	15 41 Mountain		Solid		×	×	×	×	×										87.2.74	4			
BH07B (890-1960-21)	2/15/22	15 45 Mountain		Solid		×	×	×	×	×										PERSONAL PROPERTY.	-			
ВН08 (890-1960-22)	2/15/22	16 12 Mountain		Solid		×	×	×	×	×										3 7 78988	-			
внова (890-1960-23)	2/15/22	16 16 Mountain		Solid	-	×	×	T×	×	T×	 	+		+-					+	1875.5	14			
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC, attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	t Testing South Centr ove for analysis/tests. ntral LLC attention im	al LLC places th /matrix being an: imediately If all	ne ownership of alyzed the sam requested acci	f method analy ples must be s reditations are	te & ac hipped current	ccredi d back t to da	tation to the	comp Euro	liance viins E e sigr	upon inviror ned Ci	out s nment	subco t Test of Cus	ntrac ing s stody	t labo outh attes	rator Cent ting t	es Said	This:	sam; bora	tory a	to E	her i	is forwarded under cha instructions will be provi fins Environment Testir	ain-of video	Foustody If the 1. Any changes to outh Central LLC.
Possible Hazard Identification Unconfirmed					_sa	Sample Disposal (A fe	e Dis	pos n To	le Disposal (A f Return To Client	nt fee	e may be assessed if samples Disposal By Lab	∏be	Dis	assessed if san Disposal By Lab	edi alBj	fsa /La	6 mp	S	∏ 5	Peta A	rch ne	are retained longer than 1 r	1 month) Mon	nth) Months
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Sp	Special Instructions/QC	l Inst	ructi ∕	ons/(Requirements	irem	ents											
Empty Kit Relinquished by		Date			Time	1			-	•				L	Method of Shipment	d of s	Shipr	nent			ll			
Relinquished by (In Cap 2.14.23	Date/Time	100000000000000000000000000000000000000	0 0	Company		Rec Re	Received	Ş.		Z	R	\Rightarrow		5	1		Date	Date/Time Date/Time	ui u		1		င္ခ င္ခ	Company
Relinquished by:	Date/Time		0	Company		8/N	Received by	ξ									Date	Date/Time	ġ.				ဂ္ဂ	Company
Custody Seals Intact. Custody Seal No						င္စ	er Te	mper	Cooler Temperature(s) °C		and Other Remarks	ther	Rem	줐										

Ver 06/08/2021

Login Sample Receipt Checklist

 Client: WSP USA Inc.
 Job Number: 890-1960-1

 SDG Number: 31402309.16

List Source: Eurofins Carlsbad

Login Number: 1960 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.	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	

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1960-1

SDG Number: 31402309.16

List Source: Eurofins Midland List Creation: 02/17/22 01:10 PM

List Number: 2 Creator: Kramer, Jessica

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Login Number: 1960

Answer	Comment
True	
	True True True True True True True True

True

True

N/A

1

2/28/2022

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2249-1

Laboratory Sample Delivery Group: 03D2024007 Client Project/Site: No Caster 19 FED 004H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

JURAMER

Authorized for release by: 5/3/2022 4:07:55 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/8/2022 1:21:23 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Ensolum
Project/Site: No Caster 19 FED 004H
Laboratory Job ID: 890-2249-1
SDG: 03D2024007

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QC Association Summary	15
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Certification Summary	20
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Definitions/Glossary

Job ID: 890-2249-1 Client: Ensolum Project/Site: No Caster 19 FED 004H

SDG: 03D2024007

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

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 Colony Forming Unit CFU **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) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-2249-1 SDG: 03D2024007 Project/Site: No Caster 19 FED 004H

Job ID: 890-2249-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2249-1

Receipt

The samples were received on 4/27/2022 8:21 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 0.8°C

GC VOA

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

GC Semi VOA

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

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

Client Sample Results

 Client: Ensolum
 Job ID: 890-2249-1

 Project/Site: No Caster 19 FED 004H
 SDG: 03D2024007

Client Sample ID: SW01

Date Collected: 04/26/22 15:05

Lab Sample ID: 890-2249-1

Matrix: Solid

Date Collected: 04/26/22 15:05
Date Received: 04/27/22 08:21

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 08:12	05/02/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/02/22 08:12	05/02/22 20:35	1
1,4-Difluorobenzene (Surr)	127		70 - 130			05/02/22 08:12	05/02/22 20:35	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/03/22 08:51	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/03/22 16:49	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 15:04	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 15:04	1
C10-C28)								
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 15:04	1
,	<50.0 %Recovery		50.0 Limits	mg/Kg		04/28/22 13:59 Prepared	05/02/22 15:04 Analyzed	
Oll Range Organics (Over C28-C36) Surrogate				mg/Kg				Dil Fac
OII Range Organics (Over C28-C36)	%Recovery		Limits	mg/Kg		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 84 85	Qualifier	Limits 70 - 130	mg/Kg		Prepared 04/28/22 13:59	Analyzed 05/02/22 15:04	1
Oll Range Organics (Over C28-C36) Surrogate 1-Chloroctane o-Terphenyl	%Recovery 84 85 pmatography -	Qualifier	Limits 70 - 130	mg/Kg Unit	D	Prepared 04/28/22 13:59	Analyzed 05/02/22 15:04	Dil Fac

Client Sample ID: SW02 Lab Sample ID: 890-2249-2

Date Collected: 04/26/22 15:10 Date Received: 04/27/22 08:21

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/02/22 08:12	05/02/22 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/02/22 08:12	05/02/22 21:02	1

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Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Client Sample ID: SW02

Lab Sample ID: 890-2249-2 Date Collected: 04/26/22 15:10 Date Received: 04/27/22 08:21

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	05/02/22 08:12	05/02/22 21:02	1

Method: Total	BTEX - Total	BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			05/03/22 08:51	1

Mothod: 2015 NM	Diccol Pango	Organice	(DPO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0 U	50.0	ma/Ka			05/03/22 16:49	1	

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	0	04/28/22 13:59	05/02/22 16:09	1
o-Terphenyl	96		70 - 130	0	04/28/22 13:59	05/02/22 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7	4.95	mg/Kg			05/01/22 20:22	1

Client Sample ID: SW04 Lab Sample ID: 890-2249-3 **Matrix: Solid**

Date Collected: 04/26/22 15:05 Date Received: 04/27/22 08:21

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/02/22 08:12	05/02/22 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			05/02/22 08:12	05/02/22 21:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/02/22 08:12	05/02/22 21:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	ma/Ka			05/03/22 08:51	1

Analyte	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		 <50.0	U	50.0	mg/Kg			05/03/22 16:49	1

Job ID: 890-2249-1

Client: Ensolum Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Client Sample ID: SW04 Lab Sample ID: 890-2249-3 Matrix: Solid

Date Collected: 04/26/22 15:05 Date Received: 04/27/22 08:21 Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			04/28/22 13:59	05/02/22 16:31	1
o-Terphenyl	114		70 - 130			04/28/22 13:59	05/02/22 16:31	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							05/01/22 19:46	

Client Sample ID: SW05 Lab Sample ID: 890-2249-4

Date Collected: 04/26/22 15:10 Matrix: Solid Date Received: 04/27/22 08:21

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/02/22 08:12	05/02/22 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			05/02/22 08:12	05/02/22 21:56	1
1,4-Difluorobenzene (Surr)	76		70 - 130			05/02/22 08:12	05/02/22 21:56	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total DTCV	<0.00401						05/00/00 00 54	
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/03/22 08:51	1
_			0.00401	mg/Kg			05/03/22 08:51	1
Method: 8015 NM - Diesel Range	Organics (DR		0.00401 RL	mg/Kg Unit	D	Prepared	05/03/22 08:51 Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Organics (DR Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg			Analyzed 05/03/22 16:49	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR) Result <50.0 Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U U	RL 50.0 FL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 04/28/22 13:59	Analyzed 05/03/22 16:49 Analyzed 05/02/22 16:53	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR Result <50.0 Organics (DI Result	Qualifier U RO) (GC) Qualifier U U	RL 50.0	Unit mg/Kg		Prepared	Analyzed 05/03/22 16:49 Analyzed	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR) Result <50.0 Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 FL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 04/28/22 13:59	Analyzed 05/03/22 16:49 Analyzed 05/02/22 16:53	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <50.0 Organics (DR/Result <50.0 <p>4 Organics (DR/Result <50.0)</p>	Qualifier U RO) (GC) Qualifier U U U U U	RL 50.0 FL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/28/22 13:59 04/28/22 13:59	Analyzed 05/03/22 16:49 Analyzed 05/02/22 16:53 05/02/22 16:53	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR/Result < 50.0 Organics (DR/Result < 50.0 < 50.0 < 50.0	Qualifier U RO) (GC) Qualifier U U U U U	RL 50.0 RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/28/22 13:59 04/28/22 13:59	Analyzed 05/03/22 16:49 Analyzed 05/02/22 16:53 05/02/22 16:53	Dil Fac Dil Fac 1

Job ID: 890-2249-1

Client: Ensolum Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Client Sample ID: SW05 Lab Sample ID: 890-2249-4

Date Collected: 04/26/22 15:10 Matrix: Solid Date Received: 04/27/22 08:21

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	19.5	5.00	mg/Kg			05/01/22 20:13	1		

Client Sample ID: FS03 Lab Sample ID: 890-2249-5

Date Collected: 04/26/22 14:55 Date Received: 04/27/22 08:21

Sample Depth: 2 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/22 08:12	05/02/22 22:23	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/02/22 08:12	05/02/22 22:23	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/02/22 08:12	05/02/22 22:23	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/02/22 08:12	05/02/22 22:23	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/02/22 08:12	05/02/22 22:23	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/22 08:12	05/02/22 22:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130			05/02/22 08:12	05/02/22 22:23	
1,4-Difluorobenzene (Surr)	95		70 - 130			05/02/22 08:12	05/02/22 22:23	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/03/22 08:51	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/03/22 16:49	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/28/22 13:59	05/02/22 17:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/28/22 13:59	05/02/22 17:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/28/22 13:59	05/02/22 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			04/28/22 13:59	05/02/22 17:14	1
o-Terphenyl	102		70 - 130			04/28/22 13:59	05/02/22 17:14	:
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Matrix: Solid

Surrogate Summary

Client: Ensolum Job ID: 890-2249-1
Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-13978-A-5-E MS	Matrix Spike	111	98	
380-13978-A-5-F MSD	Matrix Spike Duplicate	105	101	
390-2249-1	SW01	120	127	
390-2249-2	SW02	118	93	
390-2249-3	SW04	118	95	
390-2249-4	SW05	75	76	
390-2249-5	FS03	112	95	
CS 880-24600/1-A	Lab Control Sample	109	103	
_CSD 880-24600/2-A	Lab Control Sample Dup	110	101	
MB 880-24600/5-A	Method Blank	82	84	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-2249-1	SW01	84	85	
0-2249-1 MS	SW01	85	84	
0-2249-1 MSD	SW01	88	84	
0-2249-2	SW02	90	96	
0-2249-3	SW04	111	114	
0-2249-4	SW05	99	103	
0-2249-5	FS03	96	102	
S 880-24438/2-A	Lab Control Sample	104	108	
SD 880-24438/3-A	Lab Control Sample Dup	103	108	
3 880-24438/1-A	Method Blank	94	107	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24600/5-A

Matrix: Solid Analysis Batch: 24597 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24600

		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
	Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 08:12	05/02/22 11:36	1
ı									

MB MB

MD MD

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	05/02/22 08:12	05/02/22 11:36	1
1.4-Difluorobenzene (Surr)	84	70 ₋ 130	05/02/22 08:12	05/02/22 11:36	1

Lab Sample ID: LCS 880-24600/1-A

Matrix: Solid

Analysis Batch: 24597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24600

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09633 mg/Kg 96 70 - 130 Toluene 0.100 0.08295 mg/Kg 83 70 - 130 0.100 Ethylbenzene 0.09115 mg/Kg 91 70 - 130 0.200 0.1840 92 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09343 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-24600/2-A

Matrix: Solid

Analysis Batch: 24597

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24600

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08671		mg/Kg		87	70 - 130	11	35	
Toluene	0.100	0.07875		mg/Kg		79	70 - 130	5	35	
Ethylbenzene	0.100	0.08820		mg/Kg		88	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.1768		mg/Kg		88	70 - 130	4	35	
o-Xylene	0.100	0.09142		mg/Kg		91	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-13978-A-5-E MS

Matrix: Solid

Analysis Batch: 24597

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

Prep Batch: 24600

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.09708		mg/Kg	_	97	70 - 130	
Toluene	<0.00202	U	0.0996	0.08513		mg/Kg		85	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

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

Lab Sample ID: 880-13978-A-5-E MS

Matrix: Solid

Analysis Batch: 24597

Client Sample	e ID:	Matrix	Spike

Prep Type: Total/NA

Prep Batch: 24600

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.0996	0.09669		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1936		mg/Kg		97	70 - 130	
o-Xylene	<0.00202	U	0.0996	0.09756		mg/Kg		98	70 - 130	

MS MS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24600

Lab Sample ID: 880-13978-A-5-F MSD **Matrix: Solid**

Analysis Batch: 24597

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0994 Benzene <0.00202 U 0.08939 mg/Kg 90 70 - 130 8 35 Toluene 0.08122 82 <0.00202 U 0.0994 mg/Kg 70 - 130 5 35 Ethylbenzene <0.00202 U 0.0994 0.08920 mg/Kg 90 70 - 130 8 35 <0.00404 U 0.199 0.1777 89 70 - 130 35 m-Xylene & p-Xylene mg/Kg 9 0.0994 <0.00202 U 0.09108 92 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

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

Lab Sample ID: MB 880-24438/1-A

Matrix: Solid

Analysis Batch: 24609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24438

	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		04/28/22 13:59	05/02/22 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 14:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 14:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/28/22 13:59	05/02/22 14:00	1
o-Terphenyl	107		70 - 130	04/28/22 13:59	05/02/22 14:00	1

Lab Sample ID: LCS 880-24438/2-A

Matrix: Solid

Analysis Batch: 24609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24438

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	908.3		mg/Kg		91	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	991.2		mg/Kg		99	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H

SDG: 03D2024007

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

Lab Sample ID: LCS 880-24438/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid Analysis Batch: 24609

Prep Batch: 24438

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 108 70 - 130

Lab Sample ID: LCSD 880-24438/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 24609 Prep Batch: 24438 Spike LCSD LCSD %Rec RPD

Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 908.3 91 70 - 130O 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 988.6 99 mg/Kg 70 - 1300 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane o-Terphenyl 108 70 - 130

Lab Sample ID: 890-2249-1 MS Client Sample ID: SW01

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 24609 Prep Batch: 24438 Sample Sample Spike MS MS

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 789.6 mg/Kg 79 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 816.9 mg/Kg 82 70 - 130 C10-C28)

MS MS

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 85 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-2249-1 MSD Client Sample ID: SW01

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 24609** Prep Batch: 24438

Sample Sample Snike MSD MSD

	Janipie	Janipie	Opike	WISD	WIOD				/01 \C C		IXI D	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	998	831.8		mg/Kg		83	70 - 130	5	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	998	818.2		mg/Kg		82	70 - 130	0	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	84		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SW04

Client Sample ID: SW04

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24411/1-A

Matrix: Solid

Analysis Batch: 24591

Result Qualifier Dil Fac Analyte RL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/01/22 19:20

Lab Sample ID: LCS 880-24411/2-A

Matrix: Solid

Analysis Batch: 24591

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	235.0		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-24411/3-A

Matrix: Solid

Analysis Batch: 24591

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	235.6		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-2249-3 MS

Matrix: Solid

Analysis Batch: 24591

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	351		250	602.5		mg/Kg		101	90 - 110	

Lab Sample ID: 890-2249-3 MSD

Matrix: Solid

Analysis Batch: 24591

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	351		250	588.5		mg/Kg		95	90 - 110	2	20	

Lab Sample ID: MB 880-24410/1-A

Matrix: Solid

Analysis Batch: 24592

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/01/22 14:12	1

Lab Sample ID: LCS 880-24410/2-A

Matrix: Solid

Analysis Batch: 24592

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	232.0		mg/Kg		93	90 - 110	

Lab Sample ID: LCSD 880-24410/3-A

Released to Imaging: 12/8/2022 1:21:23 PM

Matrix: Solid

Analysis Batch: 24592

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	225.8		mg/Kg	_	90	90 - 110	3	20

QC Sample Results

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H

SDG: 03D2024007

Client Sample ID: Matrix Spike

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2244-A-31-D MS

Matrix: Soli

Analysis Ba

olid				Prep Type: Soluble
Batch: 24592				
	Sample Sample	Spike	MS MS	%Rec

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Chloride 11.4 250 277.4 mg/Kg 107 90 - 110

Lab Sample ID: 890-2244-A-31-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24592

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.4		250	258.1		mg/Kg		99	90 - 110	7	20

 Client: Ensolum
 Job ID: 890-2249-1

 Project/Site: No Caster 19 FED 004H
 SDG: 03D2024007

GC VOA

Analysis Batch: 24597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	8021B	24600
890-2249-2	SW02	Total/NA	Solid	8021B	24600
890-2249-3	SW04	Total/NA	Solid	8021B	24600
890-2249-4	SW05	Total/NA	Solid	8021B	24600
890-2249-5	FS03	Total/NA	Solid	8021B	24600
MB 880-24600/5-A	Method Blank	Total/NA	Solid	8021B	24600
LCS 880-24600/1-A	Lab Control Sample	Total/NA	Solid	8021B	24600
LCSD 880-24600/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24600
880-13978-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	24600
880-13978-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24600

Prep Batch: 24600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	5035	<u> </u>
890-2249-2	SW02	Total/NA	Solid	5035	
890-2249-3	SW04	Total/NA	Solid	5035	
890-2249-4	SW05	Total/NA	Solid	5035	
890-2249-5	FS03	Total/NA	Solid	5035	
MB 880-24600/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24600/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24600/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13978-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
880-13978-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	Total BTEX	-
890-2249-2	SW02	Total/NA	Solid	Total BTEX	
890-2249-3	SW04	Total/NA	Solid	Total BTEX	
890-2249-4	SW05	Total/NA	Solid	Total BTEX	
890-2249-5	FS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	8015NM Prep	
890-2249-2	SW02	Total/NA	Solid	8015NM Prep	
890-2249-3	SW04	Total/NA	Solid	8015NM Prep	
890-2249-4	SW05	Total/NA	Solid	8015NM Prep	
890-2249-5	FS03	Total/NA	Solid	8015NM Prep	
MB 880-24438/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24438/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2249-1 MS	SW01	Total/NA	Solid	8015NM Prep	
890-2249-1 MSD	SW01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	8015B NM	24438
890-2249-2	SW02	Total/NA	Solid	8015B NM	24438

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 Client: Ensolum
 Job ID: 890-2249-1

 Project/Site: No Caster 19 FED 004H
 SDG: 03D2024007

GC Semi VOA (Continued)

Analysis Batch: 24609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-3	SW04	Total/NA	Solid	8015B NM	24438
890-2249-4	SW05	Total/NA	Solid	8015B NM	24438
890-2249-5	FS03	Total/NA	Solid	8015B NM	24438
MB 880-24438/1-A	Method Blank	Total/NA	Solid	8015B NM	24438
LCS 880-24438/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24438
LCSD 880-24438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24438
890-2249-1 MS	SW01	Total/NA	Solid	8015B NM	24438
890-2249-1 MSD	SW01	Total/NA	Solid	8015B NM	24438

Analysis Batch: 24757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Total/NA	Solid	8015 NM	
890-2249-2	SW02	Total/NA	Solid	8015 NM	
890-2249-3	SW04	Total/NA	Solid	8015 NM	
890-2249-4	SW05	Total/NA	Solid	8015 NM	
890-2249-5	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24410

Lab Sample ID 890-2249-1	Client Sample ID SW01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-2249-2	SW02	Soluble	Solid	DI Leach	
MB 880-24410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2244-A-31-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2244-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 24411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-3	SW04	Soluble	Solid	DI Leach	
890-2249-4	SW05	Soluble	Solid	DI Leach	
890-2249-5	FS03	Soluble	Solid	DI Leach	
MB 880-24411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2249-3 MS	SW04	Soluble	Solid	DI Leach	
890-2249-3 MSD	SW04	Soluble	Solid	DI Leach	

Analysis Batch: 24591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-3	SW04	Soluble	Solid	300.0	24411
890-2249-4	SW05	Soluble	Solid	300.0	24411
890-2249-5	FS03	Soluble	Solid	300.0	24411
MB 880-24411/1-A	Method Blank	Soluble	Solid	300.0	24411
LCS 880-24411/2-A	Lab Control Sample	Soluble	Solid	300.0	24411
LCSD 880-24411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24411
890-2249-3 MS	SW04	Soluble	Solid	300.0	24411
890-2249-3 MSD	SW04	Soluble	Solid	300.0	24411

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QC Association Summary

Client: Ensolum Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H

SDG: 03D2024007

HPLC/IC

Analysis Batch: 24592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2249-1	SW01	Soluble	Solid	300.0	24410
890-2249-2	SW02	Soluble	Solid	300.0	24410
MB 880-24410/1-A	Method Blank	Soluble	Solid	300.0	24410
LCS 880-24410/2-A	Lab Control Sample	Soluble	Solid	300.0	24410
LCSD 880-24410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24410
890-2244-A-31-D MS	Matrix Spike	Soluble	Solid	300.0	24410
890-2244-A-31-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24410

Date Received: 04/27/22 08:21

Client: Ensolum Project/Site: No Caster 19 FED 004H Job ID: 890-2249-1 SDG: 03D2024007

Client Sample ID: SW01 Lab Sample ID: 890-2249-1 Date Collected: 04/26/22 15:05

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			5.00 g	5 mL	24600	05/02/22 08:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24597	05/02/22 20:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24703	05/03/22 08:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24757	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 15:04	BJH	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24410	04/28/22 11:35	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 20:13	CH	XEN MID

Client Sample ID: SW02 Lab Sample ID: 890-2249-2

Date Collected: 04/26/22 15:10 Matrix: Solid

Date Received: 04/27/22 08:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24600	05/02/22 08:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24597	05/02/22 21:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24703	05/03/22 08:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24757	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 16:09	BJH	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24410	04/28/22 11:35	SC	XEN MIC
Soluble	Analysis	300.0		1			24592	05/01/22 20:22	CH	XEN MID

Client Sample ID: SW04 Lab Sample ID: 890-2249-3

Date Collected: 04/26/22 15:05 **Matrix: Solid** Date Received: 04/27/22 08:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24600	05/02/22 08:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24597	05/02/22 21:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24703	05/03/22 08:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24757	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 16:31	BJH	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 19:46	CH	XEN MID

Client Sample ID: SW05 Lab Sample ID: 890-2249-4

Date Collected: 04/26/22 15:10 **Matrix: Solid** Date Received: 04/27/22 08:21

	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	24600	05/02/22 08:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24597	05/02/22 21:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24703	05/03/22 08:51	AJ	XEN MID

Client: Ensolum

Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Client Sample ID: SW05 Lab Sample ID: 890-2249-4

Date Collected: 04/26/22 15:10 Matrix: Solid Date Received: 04/27/22 08:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24757	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 16:53	BJH	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 20:13	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-2249-5

Date Collected: 04/26/22 14:55 Matrix: Solid

Date Received: 04/27/22 08:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24600	05/02/22 08:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24597	05/02/22 22:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24703	05/03/22 08:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24757	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 17:14	BJH	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 20:22	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2249-1
Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	• '	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
and agoney accorner or	ei ceruncauori.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Job ID: 890-2249-1 Project/Site: No Caster 19 FED 004H SDG: 03D2024007

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

DI Leach

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

XEN MID

ASTM

Sample Summary

Client: Ensolum

Project/Site: No Caster 19 FED 004H

Job ID: 890-2249-1

SDG: 03D2024007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2249-1	SW01	Solid	04/26/22 15:05	04/27/22 08:21	0 - 4
890-2249-2	SW02	Solid	04/26/22 15:10	04/27/22 08:21	0 - 4
890-2249-3	SW04	Solid	04/26/22 15:05	04/27/22 08:21	0 - 2
890-2249-4	SW05	Solid	04/26/22 15:10	04/27/22 08:21	0 - 2
890-2249-5	FS03	Solid	04/26/22 14:55	04/27/22 08:21	2 - 2

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Superfund

Brownfields RRC

Work Order Comments

Page

www.xenco.com

Work Order No:

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

Environment Testing

eurofins ...

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

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Level IV

DI Water: H₂O

None: NO

Preservative Codes

Other:

ADaPT

MeOH: Me HNO 3: HN NaOH: Na

Cool: Cool

HCL: HC

NaOH+Ascorbic Acid: SAPC

Zn Acetate+NaOH: Zn

Va 2 S 2 O 3: Na SO 3

NaHSO 4: NABIS

H2504: H2 4,PO 4: HP Sample Comments

(emposite

CMPUSIK (composite C smposik

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Composite

Revised Date: 08/25/2020 Rev. 2020

Date/Time

TI Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471

Reporting: Level III | PST/UST | TRRP | Received by: (Signature) 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr UST/PST ☐ PRP☐ EDD State of Project: Furofins 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 Deliverables: TCLP / SPLP 6010 ; 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 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 between 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 Program: 890-2249 Chain of Custody **ANALYSIS REQUEST** Relinquished by: (Signature) 02821 Chlondes BC-te-h HdI Date/Time 131.Ex # of Cont Code Parameters | H 4 4 Bill to: (if different) Company Name: Grab/ Comp U City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm 0 0 د 100-N See No 0, 0 Rush Address: 14-0 0-3 0 Depth 16-0 7-0 **Turn Around** Received by: (Signature) Routine Due Date: Corrected Temperature: Sampled 1605 TIme 15051 Mot Ico Temperature Reading: 1510 1510 10665 25×1 Correction Factor: Thermometer ID: Sock toolmidland tx. 8 Sampled 46/20 64/95 26/40 30 3 Date ho Caster 19 Fed bot 11 04 35 GOIN MARIENFELD 817.683.3503 Circle Method(s) and Metal(s) to be analyzed Yes Jenning 530 203 400 7 V 5 S 5 S × × ¥ Conner Shore Temp Blank: 200.8 / 6020: So los (Yes) No Yes No Yes No Relinquished by: (Signature) Kaler Sample Identification samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: TONS CONS Cooler Custody Seals: SAMPLE RECEIPT Project Manager: Project Number: Sampler's Name: Fotal Containers: Company Name: roject Location: City, State ZIP: Project Name: SMO 5 SWOT 6203 SNOS Address: PO #: S

Page 23 of 26

Eurofins Carlsbad

Chain of Custody Record

💸 eurofins

Environment Testing America

1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

- 1	Sampler			Lab PM	١				l		╛	Carrier Tracking No(s)	Tracki	NO(اَّ			COC No	0					
Client Information (Sub Contract Lab)				Kramer	er Jessica	sica												890-730 1	30 1					
Shipping/Receiving	FRORE			Jessic	ь-маі Jessica Kramer@et.eurofinsus	ner@	et.eur	ofinsı	us com	3		State of Origin New Mexico	f Origin	0				Page. Page	Page. Page 1 of 1	-				
Eurofins Environment Testing South Centr					Accreditations Required (See no NELAP - Texas	tions R	equired	(See	note):									Job #: 890-2	Job #: 890-2249-1					
Address 1211 W Florida Ave	Due Date Requested 5/3/2022							,	Anal	alysis	Requested	lest	ed					rese	Preservation Codes	n Cod	es	The second second		
City Midland	TAT Requested (days):	/s):					\dashv							\dashv			kataitä .		NaOH NaOH	,		Hexane None		
State, Zip TX, 79701					in Military alternations	TPH			······································								ndoreta a conte	E D C Nai S	Zn Acetate Nitric Acid NaHSO4	- 6	O T O	AsNaO2 Na2O4S Na2SO3		
Phone: 432-704-5440(Tel)	# 09					D) Full	de		***************************************				***				enter version		MeOH Amchlor	ĺ		Na2S2O3 H2SO4	Na2S2O3 H2SO4	
Email	WO#-				(0)1-22-31-1-1	ep (MO	Chloric										red broken til sed		ce DI Water	i		Acetone MCAA	reconst	<u>a</u>
No caster 19 FED 004H	Project #: 89000094				-20-1-02-1	S_Pr	ACH									_	A Company	L EDA	EDTA		N 5	pH 4-5 other (specify)	ecify)	
Site	SSOW#:				GREENE AND	15NM	D/DL L		v								Just a regardite	Other:						
		Sample	Sample Type	Matrix (w=water S=solid,	d Filtered ! orm MS/M	MOD_NM/8	MOD_Calc ORGFM_28	B/5035FP_0	_BTEX_GC								l Number							
Sample Identification - Cheft ID (Lab ID)	Sample Date	X Ime	G=grab) BT=Tissue, A=A Preservation Code:	<u> </u>	BSSSS			-	То			_	1	200	4-1		⊘ T¢		Spec		struc	tions	Special Instructions/Note:	
SW01 (890-2249-1)	4/26/22	15 05 Mountain	and to a very financial and a state of the s	Solid		×	×	×	×			-			Ť		-)		2			The state of the s		
SW02 (890-2249-2)	4/26/22	15 10 Mountain		Solid		×	×	×	×			_			\dashv		4							
SW04 (890-2249-3)	4/26/22	15 05 Mountain		Solid		×	×	×	×			_		\dashv			4							
SW05 (890-2249-4)	4/26/22	15 10 Mountain		Solid		×	×	×	×					-+	\dashv		-							
FS03 (890-2249-5)	4/26/22	14 55 Mountain		Solid		×	×	×	×						$\neg \uparrow$		4							
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Testing South Central ve for analysis/tests/n ral LLC attention imn	LLC places th natrix being and	e ownership of r	method analy bles must be s	e & acci	reditation back to back to date,	the Eur	pliance ofins E	upon inviron	out sub ment T ain of 0	ocontra esting Custod	ct labo South y attes	ratorie Centra ling to	s This	samplaborat	e ship	nent in other in	s forwanstructi	ironme	nder ch Il be pr	nain-of ovided ting Sc	-custod Any c	y If the hanges	ਨ ਵ
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal (A t	le Disposal (A) Return To Client	Sal Clie	nt fee	ee may be assessed if samples are retained longer	be as	assessed if san Disposal By Lab	ed if	samp Lab	les a		aine Archi	tained long	ger ti	than 1	1 month)	nth)		
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank.	ble Rank. 2			Spe	Special Instructions/QC	struct	ions/(Requirements	men	Ś	ı									l		
Empty Kit Relinquished by	-	Date			Time		ı	\supset			1	_	ethod	Method of Shipment	ment.								MANAGERITAMEN	
Relinquished by (Use Cup 4-27-23	Date/Time: Date/Time		C Co	Company		Received by:	by &	Z	B	21	10	K.	7	Date	Date/Time Date/Time		12	12	6		Con	Company		
Relinquished by	Date/Time		Co	Company		Received by:	d by						Ì	밊	Date/Time						Com	Company		
Custody Seals Intact: Custody Seal No					### (F	Cooler Temperature(s)	Tempe	rature(0.8	C and Other Remarks.	er Ren	ìarks.		4		7		1	17		٦t	6	73	

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Ver: 06/08/2021

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2249-1

 SDG Number: 03D2024007

Login Number: 2249 List Source: Eurofins Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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.	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	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2249-1

SDG Number: 03D2024007

SDG Number: 03D2024007

List Source: Eurofins Midland
List Number: 2
List Creation: 04/28/22 10:30 AM

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	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2253-1

Laboratory Sample Delivery Group: 03D2024007 Client Project/Site: No Caster 19 Fed 004H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MEAMER

Authorized for release by: 5/10/2022 12:33:31 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through

TOTAL TOCOM

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/8/2022 1:21:23 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Ensolum

Project/Site: No Caster 19 Fed 004H

Laboratory Job ID: 890-2253-1

SDG: 03D2024007

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Definitions/Glossary

Job ID: 890-2253-1 Client: Ensolum Project/Site: No Caster 19 Fed 004H

SDG: 03D2024007

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

%R

MCL

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

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

Minimum Detectable Activity (Radiochemistry) MDA

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry) MDC

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**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: No Caster 19 Fed 004H

Job ID: 890-2253-1

SDG: 03D2024007

Job ID: 890-2253-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2253-1

Receipt

The samples were received on 4/27/2022 3:26 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 3.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS04 (890-2253-1), FS05 (890-2253-2), FS06 (890-2253-3), FS01 (890-2253-4), FS02 (890-2253-5), FS07 (890-2253-6), FS09 (890-2253-7), FS08 (890-2253-8), FS10 (890-2253-9), FS11 (890-2253-10), FS12 (890-2253-11), SW03 (890-2253-12), SW06 (890-2253-13), SW07 (890-2253-14), (CCV 880-25032/33), (CCV 880-25032/51), (CCV 880-25032/82), (CCV 880-25032/95), (LCS 880-25053/1-A), (LCSD 880-25053/2-A), (MB 880-25030/5-A), (MB 880-25053/5-A), (890-2252-A-10-E), (890-2252-A-10-C MS) and (890-2252-A-10-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25053 and analytical batch 880-25032 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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 880-24548 and analytical batch 880-24679 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 quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Lab Sample ID: 890-2253-1

Client Sample Results

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS04

Date Collected: 04/27/22 10:05 Date Received: 04/27/22 15:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/08/22 16:37	05/09/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	206	S1+	70 - 130				05/08/22 16:37	05/09/22 00:36	1
1,4-Difluorobenzene (Surr)	74		70 - 130				05/08/22 16:37	05/09/22 00:36	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/09/22 11:41	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DilEas
								Allalyzou	DII Fac
Total TPH	<50.0	U	50.0		mg/Kg		·	05/02/22 09:24	
- -			50.0		mg/Kg	_	<u> </u>		
- -	ge Organics (D		50.0 RL	MDL	mg/Kg Unit		Prepared		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 04/29/22 15:34	05/02/22 09:24	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>·</u>	05/02/22 09:24 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 21:59	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 21:59 05/02/22 21:59	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 21:59 05/02/22 21:59	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 <i>Prepared</i>	Analyzed 05/02/22 21:59 05/02/22 21:59 05/02/22 21:59 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <80.0 %Recovery 112 112	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/02/22 21:59 05/02/22 21:59 Analyzed 05/02/22 21:59	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 **Recovery 112 112 **comatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/02/22 21:59 05/02/22 21:59 Analyzed 05/02/22 21:59	Dil Fac

Client Sample ID: FS05

Date Collected: 04/27/22 10:10 Date Received: 04/27/22 15:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/08/22 16:37	05/09/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	218	S1+	70 - 130				05/08/22 16:37	05/09/22 01:01	

Eurofins Carlsbad

Lab Sample ID: 890-2253-2

Matrix: Solid

Released to Imaging: 12/8/2022 1:21:23 PM

Lab Sample ID: 890-2253-2

04/29/22 15:34

05/02/22 23:04

Lab Sample ID: 890-2253-3

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS05

Date Collected: 04/27/22 10:10 Date Received: 04/27/22 15:26

Sample Depth: 2

Method: 8021B - Vol	atile Organic Cor	npounds (GC	(Continued)
momous coasts to	atilo organio coi		, (-

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130	05/08/22 16:37	05/09/22 01:01	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399		mg/Kg				05/09/22 11:41	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result C	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	J	50.0	r	mg/Kg			05/02/22 09:24	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Aı	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
G	asoline Range Organics	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:04	1
(G	RO)-C6-C10									
Di	esel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:04	1
C	10-C28)									
0	II Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:04	1
Sı	ırrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	110	70 - 130
o-Terphenyl	108	70 - 130

Method: 300.0 - Anions, Ion Chro	matography - Soluble							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

				·	
Chloride	447	4.98	mg/Kg	05/03/22 20:19	1
-					

Client Sample ID: FS06 Date Collected: 04/27/22 10:15

Date Received: 04/27/22 15:26

Sample Depth: 2

Method: 8021B -	Volatile Organ	ic Compounds	(GC)
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		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:26	1
Toluene	<0.00200	U	0.00200	1	mg/Kg		05/08/22 16:37	05/09/22 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/08/22 16:37	05/09/22 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 01:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/08/22 16:37	05/09/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	222	S1+	70 - 130				05/08/22 16:37	05/09/22 01:26	1
1,4-Difluorobenzene (Surr)	82		70 - 130				05/08/22 16:37	05/09/22 01:26	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/09/22 11:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1

Lab Sample ID: 890-2253-3

Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS06

Date Collected: 04/27/22 10:15 Date Received: 04/27/22 15:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:25	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:25	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/29/22 15:34	05/02/22 23:25	1
o-Terphenyl	113		70 - 130				04/29/22 15:34	05/02/22 23:25	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS01 Lab Sample ID: 890-2253-4 Matrix: Solid

Date Collected: 04/27/22 10:05 Date Received: 04/27/22 15:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/08/22 16:37	05/09/22 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	230	S1+	70 - 130				05/08/22 16:37	05/09/22 01:50	1
1,4-Difluorobenzene (Surr)	80		70 - 130				05/08/22 16:37	05/09/22 01:50	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	_	mg/Kg			05/09/22 11:41	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDI	Unit				
				IVIDE	Oilit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	- INDL	mg/Kg	— –	Prepared	Analyzed 05/02/22 09:24	Dil Fac
Total TPH : Method: 8015B NM - Diesel Rang		U		- MDL		D	Prepared		
- -	ge Organics (D	U		MDL	mg/Kg	D	Prepared		
: Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	05/02/22 09:24 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 23:46	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	CO (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 23:46 05/02/22 23:46	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9 <49.9	CO (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	05/02/22 09:24 Analyzed 05/02/22 23:46 05/02/22 23:46	1 Dil Fac 1 1

Matrix: Solid

Lab Sample ID: 890-2253-4

Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS01

Date Collected: 04/27/22 10:05 Date Received: 04/27/22 15:26

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	271		4.99		mg/Kg			05/03/22 20:32	1	

Client Sample ID: FS02 Lab Sample ID: 890-2253-5

Date Collected: 04/27/22 10:10 Date Received: 04/27/22 15:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:15	
Toluene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:15	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:15	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/08/22 16:37	05/09/22 02:15	
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:15	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/08/22 16:37	05/09/22 02:15	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	225	S1+	70 - 130				05/08/22 16:37	05/09/22 02:15	1
1,4-Difluorobenzene (Surr)	80		70 - 130				05/08/22 16:37	05/09/22 02:15	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/09/22 11:41	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	120		70 - 130				04/29/22 15:34	05/03/22 00:06	1
o-Terphenyl	122		70 - 130				04/29/22 15:34	05/03/22 00:06	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.95		mg/Kg			05/03/22 20:38	1

Lab Sample ID: 890-2253-6

Client Sample Results

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS07

Date Collected: 04/27/22 10:15 Date Received: 04/27/22 15:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/08/22 16:37	05/09/22 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130				05/08/22 16:37	05/09/22 02:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130				05/08/22 16:37	05/09/22 02:41	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/09/22 11:41	1
	•	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/02/22 09:24	Dil Fac
	<50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier				D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Ran	<50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			05/02/22 09:24	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	05/02/22 09:24 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 04/29/22 15:34	05/02/22 09:24 Analyzed 05/03/22 00:26	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	05/02/22 09:24 Analyzed 05/03/22 00:26 05/03/22 00:26	1 Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	05/02/22 09:24 Analyzed 05/03/22 00:26 05/03/22 00:26	1 Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared	Analyzed 05/03/22 09:24 Analyzed 05/03/22 00:26 05/03/22 00:26 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <80.0 *Recovery 116 116	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/03/22 00:26 05/03/22 00:26 05/03/22 00:26 Analyzed 05/03/22 00:26	Dil Fac 1 1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 116 116 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/03/22 00:26 05/03/22 00:26 05/03/22 00:26 Analyzed 05/03/22 00:26	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: FS09

Date Collected: 04/27/22 11:00 Date Received: 04/27/22 15:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/08/22 16:37	05/09/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130				05/08/22 16:37	05/09/22 03:06	1

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Lab Sample ID: 890-2253-7

Matrix: Solid

Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS09 Lab Sample ID: 890-2253-7

Date Collected: 04/27/22 11:00 Matrix: Solid Date Received: 04/27/22 15:26

Sample Depth: 0.5

Method: 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	
WELLIOU. OUZ ID	· Voiatile Organic	Compounds	(G C)	(Continueu)	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Diffuorobenzene (Surr)	75	70 130	05/08/22 16:37	05/09/22 03:06	1

Method: Total	RTFX - Total	I RTFX Ca	lculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg		_	05/09/22 11:41	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

Analyte	Result C	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	J	50.0	r	mg/Kg			05/02/22 09:24	1

Method: 8015B	NM - Diesel	Range Ord	anics i	(DRO)	(GC)
Mictiliou. 00 10D	ITIN - DICSCI	italige Oig	Juilles	(DIXO)	100)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	04/29/22 15:34	05/03/22 00:46	1
o-Terphenyl	110	70 - 130	04/29/22 15:34	05/03/22 00:46	1

Method: 300.0 - Anions,	lon Chromatogra _l	ohy - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	586		5.00		mg/Kg			05/03/22 21:04	1

Client Sample ID: FS08 Lab Sample ID: 890-2253-8 Matrix: Solid

Date Collected: 04/27/22 11:25 Date Received: 04/27/22 15:26

Sample Depth: 0.75

Method: 8021B -	. Volatila	Organic (Compounds	(GC)

Michiga. 002 1D - Volatile Orga	inc compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130				05/08/22 16:37	05/09/22 04:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130				05/08/22 16:37	05/09/22 04:46	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			05/09/22 11:41	1

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 L	J	50.0	mg/Kg			05/02/22 09:24	1

Client: Ensolum Job ID: 890-2253-1

Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS08 Lab Sample ID: 890-2253-8 Date Collected: 04/27/22 11:25 Date Received: 04/27/22 15:26

Sample Depth: 0.75

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:07	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/29/22 15:34	05/03/22 01:07	1
o-Terphenyl	94		70 - 130				04/29/22 15:34	05/03/22 01:07	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.99		mg/Kg			05/03/22 21:10	

Client Sample ID: FS10 Lab Sample ID: 890-2253-9 Matrix: Solid

Date Collected: 04/27/22 11:55 Date Received: 04/27/22 15:26

Sample Depth: 0.75

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/08/22 16:37	05/09/22 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/08/22 16:37	05/09/22 05:12	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130				05/08/22 16:37	05/09/22 05:12	1
1,4-Difluorobenzene (Surr)	85		70 - 130				05/08/22 16:37	05/09/22 05:12	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/09/22 11:41	1
Total BTEX Method: 8015 NM - Diesel Range (0.00400		mg/Kg			05/09/22 11:41	1
	Organics (DR		0.00400 RL	MDL	mg/Kg Unit	D	Prepared	05/09/22 11:41 Analyzed	
ି Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range (Organics (DRO Result <49.9	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH	Organics (DR) Result <49.9 Organics (DI)	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR) Result <49.9 Organics (DI)	Qualifier U RO) (GC) Qualifier	RL 49.9		Unit mg/Kg	_		Analyzed 05/02/22 09:24	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR) Result <49.9 Organics (DI) Result	Qualifier U RO) (GC) Qualifier U Qualifier U	RL		Unit mg/Kg Unit mg/Kg	_	Prepared	Analyzed 05/02/22 09:24 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DRC Result <49.9 Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 49.9 RL 49.9		Unit mg/Kg		Prepared 04/29/22 15:34	Analyzed 05/02/22 09:24 Analyzed 05/03/22 01:28	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DRC Result <49.9 Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 04/29/22 15:34	Analyzed 05/02/22 09:24 Analyzed 05/03/22 01:28	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Prganics (DRC Result <49.9 Organics (DI Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 49.9 RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	Analyzed 05/02/22 09:24 Analyzed 05/03/22 01:28 05/03/22 01:28	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Prganics (DRC Result <49.9 Organics (DI Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/29/22 15:34 04/29/22 15:34	Analyzed 05/02/22 09:24 Analyzed 05/03/22 01:28 05/03/22 01:28	Dil Fac

Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS10

Date Collected: 04/27/22 11:55 Date Received: 04/27/22 15:26

Sample Depth: 0.75

Lab Sample ID: 890-2253-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	344		4.95		mg/Kg			05/03/22 21:16	1

Client Sample ID: FS11 Lab Sample ID: 890-2253-10 **Matrix: Solid**

Date Collected: 04/27/22 13:05 Date Received: 04/27/22 15:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:37	
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:37	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:37	•
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/08/22 16:37	05/09/22 05:37	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/09/22 05:37	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/08/22 16:37	05/09/22 05:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				05/08/22 16:37	05/09/22 05:37	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/08/22 16:37	05/09/22 05:37	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/09/22 11:41	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/03/22 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/29/22 15:34	05/03/22 01:48	1
o-Terphenyl	108		70 - 130				04/29/22 15:34	05/03/22 01:48	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.96		mg/Kg			05/03/22 21:23	1

Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS12 Lab Sample ID: 890-2253-11

Date Collected: 04/27/22 13:10
Date Received: 04/27/22 15:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130				05/08/22 16:37	05/09/22 06:03	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/08/22 16:37	05/09/22 06:03	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/09/22 11:41	-
Total TDH	<10 Q	11	10.0		ma/Ka			05/02/22 00:24	
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 09:24	
Total TPH : : <mark>Method: 8015B NM - Diesel Ranç</mark>			49.9		mg/Kg			05/02/22 09:24	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) Qualifier	RL	MDL		D	Prepared	05/02/22 09:24 Analyzed	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 04/29/22 15:34		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	04/29/22 15:34	Analyzed 05/03/22 02:29	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34	Analyzed 05/03/22 02:29 05/03/22 02:29	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D) Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34	Analyzed 05/03/22 02:29 05/03/22 02:29 05/03/22 02:29	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared	Analyzed 05/03/22 02:29 05/03/22 02:29 05/03/22 02:29 Analyzed	Dil Fa
	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery** 110 109	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/03/22 02:29 05/03/22 02:29 05/03/22 02:29 Analyzed 05/03/22 02:29	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 110 109 comatography -	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	04/29/22 15:34 04/29/22 15:34 04/29/22 15:34 Prepared 04/29/22 15:34	Analyzed 05/03/22 02:29 05/03/22 02:29 05/03/22 02:29 Analyzed 05/03/22 02:29	Dil Fac

Client Sample ID: SW03 Lab Sample ID: 890-2253-12

Date Collected: 04/27/22 11:00 Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/08/22 16:37	05/09/22 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130				05/08/22 16:37	05/09/22 06:29	

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Matrix: Solid

Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: SW03 Lab Sample ID: 890-2253-12

Date Collected: 04/27/22 11:00 Matrix: Solid Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75	70 - 130	05/08/22 16:37	05/09/22 06:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			05/09/22 11:41	1

Method: 8015 NM - Diesel Range Organics	(DPO) (GC)

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH			<50.0	U	50.0		ma/Ka			05/02/22 09:24	1	

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 04:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 04:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed	Analyzed	DII Fa
1-Chlorooctane	96		70 - 130	04/29/22	14:07	05/02/22 04:34	
o-Terphenyl	97		70 - 130	04/29/22	14:07	05/02/22 04:34	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222	5.04	mg/Kg			05/03/22 21:48	1

Client Sample ID: SW06 Lab Sample ID: 890-2253-13 **Matrix: Solid**

Date Collected: 04/27/22 11:35 Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

momous collections or gu		(/							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
Toluene	<0.00199	U	0.00199	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
Ethylbenzene	< 0.00199	U	0.00199	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
o-Xylene	< 0.00199	U	0.00199	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
Xylenes, Total	<0.00398	U	0.00398	1	mg/Kg		05/08/22 16:37	05/09/22 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130				05/08/22 16:37	05/09/22 06:55	1
1,4-Difluorobenzene (Surr)	75		70 - 130				05/08/22 16:37	05/09/22 06:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			05/09/22 11:41	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/22 09:24	1

Lab Sample ID: 890-2253-13

Client: Ensolum

Job ID: 890-2253-1

Project/Site: No Contex 10 Fed 2041

Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: SW06

Date Collected: 04/27/22 11:35

Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 04:54	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 04:54	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				04/29/22 14:07	05/02/22 04:54	1
o-Terphenyl	112		70 - 130				04/29/22 14:07	05/02/22 04:54	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte									

Client Sample ID: SW07

Date Collected: 04/27/22 11:10

Lab Sample ID: 890-2253-14

Matrix: Solid

Date Collected: 04/27/22 11:10 Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/08/22 16:37	05/09/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				05/08/22 16:37	05/09/22 07:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/08/22 16:37	05/09/22 07:21	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/09/22 11:41	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 05:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 05:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/29/22 14:07	05/02/22 05:14	1
o-Terphenyl	108		70 ₋ 130				04/29/22 14:07	05/02/22 05:14	1

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Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: SW07 Lab Sample ID: 890-2253-14 Matrix: Solid

Date Collected: 04/27/22 11:10 Date Received: 04/27/22 15:26

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	14.9		4.99		mg/Kg			05/03/22 22:14	1	

Client Sample ID: SW08 Lab Sample ID: 890-2253-15

Date Collected: 04/27/22 12:55 Date Received: 04/27/22 15:26

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:01	05/10/22 05:06	
Toluene	0.0360		0.00200		mg/Kg		05/09/22 11:01	05/10/22 05:06	
Ethylbenzene	0.0105		0.00200		mg/Kg		05/09/22 11:01	05/10/22 05:06	
m-Xylene & p-Xylene	0.124		0.00400		mg/Kg		05/09/22 11:01	05/10/22 05:06	
o-Xylene	0.0415		0.00200		mg/Kg		05/09/22 11:01	05/10/22 05:06	
Xylenes, Total	0.166		0.00400		mg/Kg		05/09/22 11:01	05/10/22 05:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				05/09/22 11:01	05/10/22 05:06	
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130				05/09/22 11:01	05/10/22 05:06	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.212		0.00400		mg/Kg			05/09/22 11:41	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 09:24	
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 05:35	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 05:35	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 05:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	113		70 - 130				04/29/22 14:07	05/02/22 05:35	
o-Terphenyl	114		70 - 130				04/29/22 14:07	05/02/22 05:35	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits
de Occurrie ID	Olivert Occupie ID	(70-130)		
ab Sample ID 90-2252-A-5-D MS	Client Sample ID	<u> </u>	(70-130)	
	Matrix Spike	122	90	
0-2252-A-5-E MSD	Matrix Spike Duplicate	126	86	
0-2252-A-10-C MS	Matrix Spike	195 S1+	80	
)-2252-A-10-D MSD	Matrix Spike Duplicate	138067 S1+	3 S1-	
)-2253-1	FS04	206 S1+	74	
)-2253-2	FS05	218 S1+	81	
-2253-3	FS06	222 S1+	82	
-2253-4	FS01	230 S1+	80	
)-2253- 4)-2253-5	FS02	235 S1+	80	
0-2253-5	FS07	216 S1+		
0-2253-6 0-2253-7	FS09	216 S1+ 216 S1+	80 75	
)-2253-7)-2253-8	FS08	198 S1+		
			108	
-2253-9	FS10	157 S1+	85	
0-2253-10	FS11	167 S1+	76	
-2253-11	FS12	198 S1+	76	
2253-12	SW03	166 S1+	75	
-2253-13	SW06	201 S1+	75	
2253-14	SW07	150 S1+	93	
-2253-15	SW08	134 S1+	131 S1+	
8 880-25053/1-A	Lab Control Sample	196 S1+	83	
880-25072/1-A	Lab Control Sample	124	89	
SD 880-25053/2-A	Lab Control Sample Dup	187 S1+	75	
SD 880-25072/2-A	Lab Control Sample Dup	118	91	
880-25030/5-A	Method Blank	136 S1+	72	
880-25053/5-A	Method Blank	146 S1+	70	
880-25055/8	Method Blank	104	89	
880-25072/5-A	Method Blank	103	89	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2241-A-1-D MS	Matrix Spike	90	82	
890-2241-A-1-E MSD	Matrix Spike Duplicate	92	83	
890-2253-1	FS04	112	112	
890-2253-1 MS	FS04	103	92	
890-2253-1 MSD	FS04	98	87	
890-2253-2	FS05	110	108	
890-2253-3	FS06	115	113	
890-2253-4	FS01	119	115	
890-2253-5	FS02	120	122	
890-2253-6	FS07	116	116	
890-2253-7	FS09	111	110	
890-2253-8	FS08	93	94	

Surrogate Summary

Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2253-9	FS10	95	96	
890-2253-10	FS11	107	108	
890-2253-11	FS12	110	109	
890-2253-12	SW03	96	97	
890-2253-13	SW06	111	112	
890-2253-14	SW07	110	108	
890-2253-15	SW08	113	114	
LCS 880-24524/2-A	Lab Control Sample	107	105	
LCS 880-24535/2-A	Lab Control Sample	107	102	
LCSD 880-24524/3-A	Lab Control Sample Dup	105	104	
LCSD 880-24535/3-A	Lab Control Sample Dup	104	100	
MB 880-24524/1-A	Method Blank	97	106	
MB 880-24535/1-A	Method Blank	108	111	
Surrogate Legend				

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2253-1 SDG: 03D2024007 Project/Site: No Caster 19 Fed 004H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25030/5-A

Matrix: Solid Analysis Batch: 25032 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25030

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/22 13:13	05/08/22 09:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/07/22 13:13	05/08/22 09:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/07/22 13:13	05/08/22 09:29	1

Lab Sample ID: MB 880-25053/5-A

Client Sample ID: Method Blank

Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 25032	Prep Batch: 25053
мв мв	

1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
E	Benzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/08/22 22:56	1
7	Toluene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/08/22 22:56	1
E	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/08/22 22:56	1
r	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/08/22 16:37	05/08/22 22:56	1
(o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/22 16:37	05/08/22 22:56	1
)	Kylenes, Total	<0.00400	U	0.00400		mg/Kg		05/08/22 16:37	05/08/22 22:56	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	05/08/22 16:37	05/08/22 22:56	1
1,4-Difluorobenzene (Surr)	70		70 - 130	05/08/22 16:37	05/08/22 22:56	1

Lab Sample ID: LCS 880-25053/1-A

Matrix: Solid

Analysis Batch: 25032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 25053

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1185		mg/Kg		119	70 - 130	
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1221		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	0.200	0.2447		mg/Kg		122	70 - 130	
o-Xylene	0.100	0.1196		mg/Kg		120	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130
1.4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-25053/2-A

Matrix: Solid

Analysis Batch: 25032

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25053

	Spike	LCSD LCSD				%Rec		KPD	
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09209	mg/Kg		92	70 - 130	25	35	

Job ID: 890-2253-1 Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

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

Lab Sample ID: LCSD 880-25053/2-A

Matrix: Solid

Analysis Batch: 25032

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 25053

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.08453 85 70 - 130 35 mg/Kg 26 Ethylbenzene 0.100 0.09824 mg/Kg 98 70 - 130 22 35 0.200 m-Xylene & p-Xylene 0.2001 mg/Kg 100 70 - 130 20 35 o-Xylene 0.100 0.09849 mg/Kg 98 70 - 130 19 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: 890-2252-A-10-C MS Client Sample ID: Matrix Spike

Analysis Batch: 25032

Matrix: Solid Prep Type: Total/NA

Prep Batch: 25053

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0996 0.09318 <0.00200 U F1 F2 mg/Kg 94 70 - 130 Toluene <0.00200 U F1 F2 0.0996 0.08694 87 70 - 130 mg/Kg Ethylbenzene 0.0996 0.09724 70 - 130 < 0.00200 U F1 F2 mg/Kg 98 m-Xylene & p-Xylene <0.00399 U F1 F2 0.199 0.1978 99 70 - 130 mg/Kg o-Xylene <0.00200 U F1 F2 0.0996 0.09955 mg/Kg 100 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	80		70 - 130		

Lab Sample ID: 890-2252-A-10-D MSD

Matrix: Solid

o-Xylene

Analysis Batch: 25032

Client Sample ID: Matrix Spike Duplicate

70 - 130

Prep Type: Total/NA Prep Batch: 25053

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U F1 F2 0.101 <0.00202 U F1 F2 0.6 70 - 130 198 35 mg/Kg Toluene <0.00200 U F1 F2 0.101 0.003324 F1 F2 mg/Kg 3 70 - 130 185 35 Ethylbenzene <0.00200 U F1 F2 0.101 0.002314 F1 F2 mg/Kg 2 70 - 130 191 35 <0.00399 U F1 F2 0.202 <0.00403 U F1 F2 1 70 - 130 35 m-Xylene & p-Xylene mg/Kg 195

0.002349 F1 F2

mg/Kg

0.101

MSD MSD

<0.00200 U F1 F2

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	138067	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	3	S1-	70 - 130		

Lab Sample ID: MB 880-25055/8

Matrix: Solid

Analysis Batch: 25055

Client Sample ID: Method Blank

Prep Type: Total/NA

191

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мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			05/09/22 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg			05/09/22 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			05/09/22 11:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			05/09/22 11:01	1

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Client: Ensolum Project/Site: No Caster 19 Fed 004H

Job ID: 890-2253-1 SDG: 03D2024007

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

Matrix: Solid

Matrix: Solid

Analyte

o-Xylene

Analysis Batch: 25055

Lab Sample ID: MB 880-25055/8

Lab Sample ID: MB 880-25072/5-A

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <0.00200 U 0.00200 05/09/22 11:01 mg/Kg mg/Kg Xylenes, Total <0.00400 U 0.00400 05/09/22 11:01

MB MB

Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 104 70 - 130 05/09/22 11:01 1,4-Difluorobenzene (Surr) 89 70 - 130 05/09/22 11:01

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25072

Analysis Batch: 25055

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:01	05/09/22 23:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:01	05/09/22 23:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:01	05/09/22 23:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 11:01	05/09/22 23:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:01	05/09/22 23:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 11:01	05/09/22 23:59	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/09/22 11:01	05/09/22 23:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/09/22 11:01	05/09/22 23:59	1

Lab Sample ID: LCS 880-25072/1-A

Matrix: Solid

Analysis Batch: 25055

Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	
Pren Batch: 25072	

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07686		mg/Kg		77	70 - 130	
Toluene	0.100	0.09570		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2251		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	89	70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-25072/2-A **Matrix: Solid**

Analysis Batch: 25055

Prep Batch: 25072 Spike LCSD LCSD RPD %Rec Added Result Qualifier Limits RPD Limit Unit %Rec 0.100 0.07208 mg/Kg 72 70 - 130 6 35 0.100 0.08611 mg/Kg 86 70 - 130 35 11

Analyte Benzene Toluene Ethylbenzene 0.100 0.09489 mg/Kg 95 70 - 130 13 35 m-Xylene & p-Xylene 0.200 0.1962 mg/Kg 98 70 - 130 14 35 o-Xylene 0.100 0.1005 mg/Kg 100 70 - 130 14 35

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Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-2253-1 SDG: 03D2024007 Project/Site: No Caster 19 Fed 004H

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-2252-A-5-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25055

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0996	0.06588	F1	mg/Kg		66	70 - 130	
Toluene	<0.00200	U	0.0996	0.08075		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.09087		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1902		mg/Kg		95	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.09879		mg/Kg		99	70 - 130	

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 122 1,4-Difluorobenzene (Surr) 90 70 - 130

MS MS

Lab Sample ID: 890-2252-A-5-E MSD

Matrix: Solid

Analysis Batch: 25055

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

Prep Batch: 25072

Prep Batch: 25072

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0994	0.07535		mg/Kg		76	70 - 130	13	35
Toluene	<0.00200	U	0.0994	0.09914		mg/Kg		100	70 - 130	20	35
Ethylbenzene	<0.00200	U	0.0994	0.1134		mg/Kg		114	70 - 130	22	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2395		mg/Kg		120	70 - 130	23	35
o-Xylene	<0.00200	U	0.0994	0.1232		mg/Kg		124	70 - 130	22	35

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 126 1,4-Difluorobenzene (Surr)

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

Lab Sample ID: MB 880-24524/1-A

Matrix: Solid Analysis Batch: 24575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24524

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 21:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 21:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 21:21	1
	MB	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/29/22 14:07	05/01/22 21:21	1
o-Terphenyl	106		70 - 130	04/29/22 14:07	05/01/22 21:21	1

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H

SDG: 03D2024007

Prep Type: Total/NA

Prep Batch: 24524

80

70 - 130

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

Lab Sample ID: LCS 880-24524/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 24575 Prep Batch: 24524

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1109		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1026		mg/Kg		103	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 107 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-24524/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid **Analysis Batch: 24575**

Analysis Batch: 24575							Prep	Batch:	24524
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over	1000	980.6		mg/Kg		98	70 - 130	5	20

C10-C28)

	LUSD	LUJD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	104		70 - 130

LCSD LCSD

<50.0 U

Lab Sample ID: 890-2241-A-1-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

803.0

mg/Kg

Analysis Batch: 24575

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 1000 Gasoline Range Organics <50.0 U 1012 100 70 - 130 mg/Kg (GRO)-C6-C10

1000

Diesel Range Organics (Over C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-2241-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 24575

	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	<50.0	U	998	1051		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	817.3		mg/Kg		82	70 - 130	2	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 92

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Prep Batch: 24524

Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

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

Lab Sample ID: 890-2241-A-1-E MSD

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24524

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 o-Terphenyl
 83
 70 - 130

Lab Sample ID: MB 880-24535/1-A

Matrix: Solid

Analysis Batch: 24615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24535

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 20:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 20:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 15:34	05/02/22 20:55	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/29/22 15:34	05/02/22 20:55	1
o-Terphenyl	111		70 - 130	04/29/22 15:34	05/02/22 20:55	1

Lab Sample ID: LCS 880-24535/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 24615

Prep Type: Total/NA

Prep Batch: 24535

	Бріке	LUS	LUS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1117		mg/Kg		112	70 - 130		_
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	953.8		mg/Kg		95	70 - 130		
C10 C28)									

C10-C28)

LCS LCS

I	Surrogate	%Recovery Qualifier	Limits
	1-Chlorooctane	107	70 - 130
I	o-Terphenyl	102	70 - 130

Lab Sample ID: LCSD 880-24535/3-A Matrix: Solid

Analysis Batch: 24615

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

Prep Batch: 24535

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1053		mg/Kg		105	70 - 130	6	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	923.2		mg/Kg		92	70 - 130	3	20	
040,000)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	100	70 - 130

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Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

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

Lab Sample ID: 890-2253-1 MS

Matrix: Solid

Analysis Batch: 24615

Client Sample ID: FS04
Prep Type: Total/NA
Prop Ratch: 24535

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1123		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	875.2		mg/Kg		88	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-2253-1 MSD	Client Sample ID: FS04
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 24615	Prep Batch: 24535

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 998 1073 106 70 - 130 5 Gasoline Range Organics mg/Kg 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 818.8 mg/Kg 82 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24548/1-A

Matrix: Solid

Analysis Batch: 24679

MB	MB

Analyte	Result	Qualifier	RL	MDL	Unit	D		Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg		_		05/03/22 19:41	1

Lab Sample ID: LCS 880-24548/2-A

Matrix: Solid

Analysis Batch: 24679

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	250	255.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-24548/3-A

Matrix: Solid

Analysis Batch: 24679

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	233.7		mg/Kg		93	90 - 110	9	20

QC Sample Results

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H

SDG: 03D2024007

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2253-1 MS Client Sample ID: FS04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24679

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 166 251 406.1 mg/Kg 96 90 - 110

Lab Sample ID: 890-2253-1 MSD Client Sample ID: FS04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24679

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec Chloride 166 251 441.6 mg/Kg 110 90 - 110 8

Lab Sample ID: 890-2253-11 MS Client Sample ID: FS12 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 24679

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

Chloride 19.2 F1 249 283.2 106 90 - 110 mg/Kg **Client Sample ID: FS12**

Lab Sample ID: 890-2253-11 MSD

Matrix: Solid

Analysis Batch: 24679

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits Chloride 19.2 F1 300.7 F1 249 113 90 - 110 20 mg/Kg

Client: Ensolum

Project/Site: No Caster 19 Fed 004H

Job ID: 890-2253-1

SDG: 03D2024007

GC VOA

Prep Batch: 25030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25030/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Total/NA	Solid	8021B	25053
890-2253-2	FS05	Total/NA	Solid	8021B	25053
890-2253-3	FS06	Total/NA	Solid	8021B	25053
890-2253-4	FS01	Total/NA	Solid	8021B	25053
890-2253-5	FS02	Total/NA	Solid	8021B	25053
890-2253-6	FS07	Total/NA	Solid	8021B	25053
890-2253-7	FS09	Total/NA	Solid	8021B	25053
890-2253-8	FS08	Total/NA	Solid	8021B	25053
890-2253-9	FS10	Total/NA	Solid	8021B	25053
890-2253-10	FS11	Total/NA	Solid	8021B	25053
890-2253-11	FS12	Total/NA	Solid	8021B	25053
890-2253-12	SW03	Total/NA	Solid	8021B	25053
890-2253-13	SW06	Total/NA	Solid	8021B	25053
890-2253-14	SW07	Total/NA	Solid	8021B	25053
MB 880-25030/5-A	Method Blank	Total/NA	Solid	8021B	25030
MB 880-25053/5-A	Method Blank	Total/NA	Solid	8021B	25053
LCS 880-25053/1-A	Lab Control Sample	Total/NA	Solid	8021B	25053
LCSD 880-25053/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25053
890-2252-A-10-C MS	Matrix Spike	Total/NA	Solid	8021B	25053
890-2252-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25053

Prep Batch: 25053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Total/NA	Solid	5035	
890-2253-2	FS05	Total/NA	Solid	5035	
890-2253-3	FS06	Total/NA	Solid	5035	
890-2253-4	FS01	Total/NA	Solid	5035	
890-2253-5	FS02	Total/NA	Solid	5035	
890-2253-6	FS07	Total/NA	Solid	5035	
890-2253-7	FS09	Total/NA	Solid	5035	
890-2253-8	FS08	Total/NA	Solid	5035	
890-2253-9	FS10	Total/NA	Solid	5035	
890-2253-10	FS11	Total/NA	Solid	5035	
890-2253-11	FS12	Total/NA	Solid	5035	
890-2253-12	SW03	Total/NA	Solid	5035	
890-2253-13	SW06	Total/NA	Solid	5035	
890-2253-14	SW07	Total/NA	Solid	5035	
MB 880-25053/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25053/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25053/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2252-A-10-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2252-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-15	SW08	Total/NA	Solid	8021B	25072
MB 880-25055/8	Method Blank	Total/NA	Solid	8021B	

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Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

GC VOA (Continued)

Analysis Batch: 25055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25072/5-A	Method Blank	Total/NA	Solid	8021B	25072
LCS 880-25072/1-A	Lab Control Sample	Total/NA	Solid	8021B	25072
LCSD 880-25072/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25072
890-2252-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	25072
890-2252-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25072

Prep Batch: 25072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-15	SW08	Total/NA	Solid	5035	
MB 880-25072/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25072/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25072/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2252-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2252-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Total/NA	Solid	Total BTEX	
890-2253-2	FS05	Total/NA	Solid	Total BTEX	
890-2253-3	FS06	Total/NA	Solid	Total BTEX	
890-2253-4	FS01	Total/NA	Solid	Total BTEX	
890-2253-5	FS02	Total/NA	Solid	Total BTEX	
890-2253-6	FS07	Total/NA	Solid	Total BTEX	
890-2253-7	FS09	Total/NA	Solid	Total BTEX	
890-2253-8	FS08	Total/NA	Solid	Total BTEX	
890-2253-9	FS10	Total/NA	Solid	Total BTEX	
890-2253-10	FS11	Total/NA	Solid	Total BTEX	
890-2253-11	FS12	Total/NA	Solid	Total BTEX	
890-2253-12	SW03	Total/NA	Solid	Total BTEX	
890-2253-13	SW06	Total/NA	Solid	Total BTEX	
890-2253-14	SW07	Total/NA	Solid	Total BTEX	
890-2253-15	SW08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-12	SW03	Total/NA	Solid	8015NM Prep	
890-2253-13	SW06	Total/NA	Solid	8015NM Prep	
890-2253-14	SW07	Total/NA	Solid	8015NM Prep	
890-2253-15	SW08	Total/NA	Solid	8015NM Prep	
MB 880-24524/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24524/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2241-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2241-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 24535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Total/NA	Solid	8015NM Prep	
890-2253-2	FS05	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

GC Semi VOA (Continued)

Prep Batch: 24535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-3	FS06	Total/NA	Solid	8015NM Prep	
890-2253-4	FS01	Total/NA	Solid	8015NM Prep	
890-2253-5	FS02	Total/NA	Solid	8015NM Prep	
890-2253-6	FS07	Total/NA	Solid	8015NM Prep	
890-2253-7	FS09	Total/NA	Solid	8015NM Prep	
890-2253-8	FS08	Total/NA	Solid	8015NM Prep	
890-2253-9	FS10	Total/NA	Solid	8015NM Prep	
890-2253-10	FS11	Total/NA	Solid	8015NM Prep	
890-2253-11	FS12	Total/NA	Solid	8015NM Prep	
MB 880-24535/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24535/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2253-1 MS	FS04	Total/NA	Solid	8015NM Prep	
890-2253-1 MSD	FS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-12	SW03	Total/NA	Solid	8015B NM	24524
890-2253-13	SW06	Total/NA	Solid	8015B NM	24524
890-2253-14	SW07	Total/NA	Solid	8015B NM	24524
890-2253-15	SW08	Total/NA	Solid	8015B NM	24524
MB 880-24524/1-A	Method Blank	Total/NA	Solid	8015B NM	24524
LCS 880-24524/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24524
LCSD 880-24524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24524
890-2241-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	24524
890-2241-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24524

Analysis Batch: 24615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Total/NA	Solid	8015B NM	24535
890-2253-2	FS05	Total/NA	Solid	8015B NM	24535
890-2253-3	FS06	Total/NA	Solid	8015B NM	24535
890-2253-4	FS01	Total/NA	Solid	8015B NM	24535
890-2253-5	FS02	Total/NA	Solid	8015B NM	24535
890-2253-6	FS07	Total/NA	Solid	8015B NM	24535
890-2253-7	FS09	Total/NA	Solid	8015B NM	24535
890-2253-8	FS08	Total/NA	Solid	8015B NM	24535
890-2253-9	FS10	Total/NA	Solid	8015B NM	24535
890-2253-10	FS11	Total/NA	Solid	8015B NM	24535
890-2253-11	FS12	Total/NA	Solid	8015B NM	24535
MB 880-24535/1-A	Method Blank	Total/NA	Solid	8015B NM	24535
LCS 880-24535/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24535
LCSD 880-24535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24535
890-2253-1 MS	FS04	Total/NA	Solid	8015B NM	24535
890-2253-1 MSD	FS04	Total/NA	Solid	8015B NM	24535

Analysis Batch: 24624

Lab Sample ID 890-2253-1	Client Sample ID FS04	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2253-2	FS05	Total/NA	Solid	8015 NM	
890-2253-3	FS06	Total/NA	Solid	8015 NM	

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Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

GC Semi VOA (Continued)

Analysis Batch: 24624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-4	FS01	Total/NA	Solid	8015 NM	
890-2253-5	FS02	Total/NA	Solid	8015 NM	
890-2253-6	FS07	Total/NA	Solid	8015 NM	
890-2253-7	FS09	Total/NA	Solid	8015 NM	
890-2253-8	FS08	Total/NA	Solid	8015 NM	
890-2253-9	FS10	Total/NA	Solid	8015 NM	
890-2253-10	FS11	Total/NA	Solid	8015 NM	
890-2253-11	FS12	Total/NA	Solid	8015 NM	
890-2253-12	SW03	Total/NA	Solid	8015 NM	
890-2253-13	SW06	Total/NA	Solid	8015 NM	
890-2253-14	SW07	Total/NA	Solid	8015 NM	
890-2253-15	SW08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Soluble	Solid	DI Leach	_
890-2253-2	FS05	Soluble	Solid	DI Leach	
890-2253-3	FS06	Soluble	Solid	DI Leach	
890-2253-4	FS01	Soluble	Solid	DI Leach	
890-2253-5	FS02	Soluble	Solid	DI Leach	
890-2253-6	FS07	Soluble	Solid	DI Leach	
890-2253-7	FS09	Soluble	Solid	DI Leach	
890-2253-8	FS08	Soluble	Solid	DI Leach	
890-2253-9	FS10	Soluble	Solid	DI Leach	
890-2253-10	FS11	Soluble	Solid	DI Leach	
890-2253-11	FS12	Soluble	Solid	DI Leach	
890-2253-12	SW03	Soluble	Solid	DI Leach	
890-2253-13	SW06	Soluble	Solid	DI Leach	
890-2253-14	SW07	Soluble	Solid	DI Leach	
890-2253-15	SW08	Soluble	Solid	DI Leach	
MB 880-24548/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24548/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24548/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2253-1 MS	FS04	Soluble	Solid	DI Leach	
890-2253-1 MSD	FS04	Soluble	Solid	DI Leach	
890-2253-11 MS	FS12	Soluble	Solid	DI Leach	
890-2253-11 MSD	FS12	Soluble	Solid	DI Leach	

Analysis Batch: 24679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-1	FS04	Soluble	Solid	300.0	24548
890-2253-2	FS05	Soluble	Solid	300.0	24548
890-2253-3	FS06	Soluble	Solid	300.0	24548
890-2253-4	FS01	Soluble	Solid	300.0	24548
890-2253-5	FS02	Soluble	Solid	300.0	24548
890-2253-6	FS07	Soluble	Solid	300.0	24548
890-2253-7	FS09	Soluble	Solid	300.0	24548
890-2253-8	FS08	Soluble	Solid	300.0	24548
890-2253-9	FS10	Soluble	Solid	300.0	24548

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Client: Ensolum
Project/Site: No Caster 19 Fed 004H
SDG: 03D2024007

HPLC/IC (Continued)

Analysis Batch: 24679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-10	FS11	Soluble	Solid	300.0	24548
890-2253-11	FS12	Soluble	Solid	300.0	24548
890-2253-12	SW03	Soluble	Solid	300.0	24548
890-2253-13	SW06	Soluble	Solid	300.0	24548
890-2253-14	SW07	Soluble	Solid	300.0	24548
890-2253-15	SW08	Soluble	Solid	300.0	24548
MB 880-24548/1-A	Method Blank	Soluble	Solid	300.0	24548
LCS 880-24548/2-A	Lab Control Sample	Soluble	Solid	300.0	24548
LCSD 880-24548/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24548
890-2253-1 MS	FS04	Soluble	Solid	300.0	24548
890-2253-1 MSD	FS04	Soluble	Solid	300.0	24548
890-2253-11 MS	FS12	Soluble	Solid	300.0	24548
890-2253-11 MSD	FS12	Soluble	Solid	300.0	24548

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Job ID: 890-2253-1

Client: Ensolum Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS04 Lab Sample ID: 890-2253-1

Date Collected: 04/27/22 10:05 Matrix: Solid Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 00:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 21:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:00	CH	XEN MID

Client Sample ID: FS05 Lab Sample ID: 890-2253-2 Matrix: Solid

Date Collected: 04/27/22 10:10 Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 01:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 23:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:19	CH	XEN MID

Client Sample ID: FS06 Lab Sample ID: 890-2253-3

Date Collected: 04/27/22 10:15 **Matrix: Solid** Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 01:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 23:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:25	CH	XEN MID

Client Sample ID: FS01 Lab Sample ID: 890-2253-4

Date Collected: 04/27/22 10:05 **Matrix: Solid** Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 01:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID

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Released to Imaging: 12/8/2022 1:21:23 PM

Client: Ensolum

Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS01 Lab Sample ID: 890-2253-4

Date Collected: 04/27/22 10:05 Matrix: Solid Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 23:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:32	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-2253-5

Date Collected: 04/27/22 10:10 **Matrix: Solid**

Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 02:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 00:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:38	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-2253-6

Date Collected: 04/27/22 10:15 Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 02:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 20:57	CH	XEN MID

Client Sample ID: FS09 Lab Sample ID: 890-2253-7

Date Collected: 04/27/22 11:00 Date Received: 04/27/22 15:26

_	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 03:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	24535 24615	04/29/22 15:34 05/03/22 00:46	DM AJ	XEN MID XEN MID

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Matrix: Solid

Matrix: Solid

Client: Ensolum

Project/Site: No Caster 19 Fed 004H

Job ID: 890-2253-1 SDG: 03D2024007

Lab Sample ID: 890-2253-7

Client Sample ID: FS09

Date Collected: 04/27/22 11:00 Date Received: 04/27/22 15:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:04	CH	XEN MID

Client Sample ID: FS08 Lab Sample ID: 890-2253-8

Date Collected: 04/27/22 11:25 Date Received: 04/27/22 15:26

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			5.02 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 04:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 01:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:10	CH	XEN MID

Client Sample ID: FS10 Lab Sample ID: 890-2253-9

Date Collected: 04/27/22 11:55

Matrix: Solid

Matrix: Solid

Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 05:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 01:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:16	CH	XEN MID

Client Sample ID: FS11 Lab Sample ID: 890-2253-10

Date Collected: 04/27/22 13:05 Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 05:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:23	CH	XEN MID

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Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: FS12 Lab Sample ID: 890-2253-11

Date Collected: 04/27/22 13:10 Matrix: Solid Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 06:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24535	04/29/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/03/22 02:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:29	CH	XEN MID

Client Sample ID: SW03 Lab Sample ID: 890-2253-12

Date Collected: 04/27/22 11:00 Matrix: Solid

Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 06:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 04:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:48	CH	XEN MID

Client Sample ID: SW06 Lab Sample ID: 890-2253-13

Date Collected: 04/27/22 11:35 Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 06:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 04:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24548	04/29/22 16:57	sc	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 21:55	CH	XEN MID

Client Sample ID: SW07 Lab Sample ID: 890-2253-14

Date Collected: 04/27/22 11:10 Date Received: 04/27/22 15:26

	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	25053	05/08/22 16:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/09/22 07:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID

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Matrix: Solid

Matrix: Solid

Released to Imaging: 12/8/2022 1:21:23 PM

Lab Chronicle

Client: Ensolum Job ID: 890-2253-1 Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Client Sample ID: SW07 Lab Sample ID: 890-2253-14

Date Collected: 04/27/22 11:10 Matrix: Solid Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 22:14	CH	XEN MID

Client Sample ID: SW08 Lab Sample ID: 890-2253-15

Date Collected: 04/27/22 12:55 Matrix: Solid

Date Received: 04/27/22 15:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25072	05/09/22 11:01	MR	XEN MID
Total/NA	Analysis	8021B		1			25055	05/10/22 05:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25084	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24624	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 05:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 22:20	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2253-1
Project/Site: No Caster 19 Fed 004H SDG: 03D2024007

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	' '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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Method Summary

Job ID: 890-2253-1 Client: Ensolum Project/Site: No Caster 19 Fed 004H

SDG: 03D2024007

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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:

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

Eurofins Carlsbad

Released to Imaging: 12/8/2022 1:21:23 PM

Sample Summary

Client: Ensolum

Project/Site: No Caster 19 Fed 004H

Job ID: 890-2253-1

SDG: 03D2024007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2253-1	FS04	Solid	04/27/22 10:05	04/27/22 15:26	2
890-2253-2	FS05	Solid	04/27/22 10:10	04/27/22 15:26	2
890-2253-3	FS06	Solid	04/27/22 10:15	04/27/22 15:26	2
890-2253-4	FS01	Solid	04/27/22 10:05	04/27/22 15:26	4
890-2253-5	FS02	Solid	04/27/22 10:10	04/27/22 15:26	4
890-2253-6	FS07	Solid	04/27/22 10:15	04/27/22 15:26	4
890-2253-7	FS09	Solid	04/27/22 11:00	04/27/22 15:26	0.5
890-2253-8	FS08	Solid	04/27/22 11:25	04/27/22 15:26	0.75
890-2253-9	FS10	Solid	04/27/22 11:55	04/27/22 15:26	0.75
890-2253-10	FS11	Solid	04/27/22 13:05	04/27/22 15:26	0.5
890-2253-11	FS12	Solid	04/27/22 13:10	04/27/22 15:26	0.5
890-2253-12	SW03	Solid	04/27/22 11:00	04/27/22 15:26	0 - 2
890-2253-13	SW06	Solid	04/27/22 11:35	04/27/22 15:26	0 - 2
890-2253-14	SW07	Solid	04/27/22 11:10	04/27/22 15:26	0 - 2
890-2253-15	SW08	Solid	04/27/22 12:55	04/27/22 15:26	0 - 4

Work Order No:

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

Environment Testing

eurofins.

Xenco

Chain of Custody
HOUSTON, TX (281) 240-4200, Dallas, TX (214) 902-0300

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

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Hg: 1631 / 245.1 / 7470 / 7471 Received by: (Signature) m charge of \$85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U otice: 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 frawtee. 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 Relinquished by: (Signature) 3.26 Date/Time 22/12/ Received by: (Signature) Circle Method(s) and Metal(s) to be analyzed Relinquished by: (Signature)

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr TI Sn U V Zn

1350

5.0

1305

200.8 / 6020:

Total 200.7 / 6010

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Superfund DI Water: H2O Level IV MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes ō Zn Acetate+NaOH: Zn PST/UST TRRP RRC Na 25 20 3: NaSO 3 Other: VaHSO 4: NABIS None: NO H3PO 4: HP UST/PST | PRP | Brownfields | Page. Cool: Cool 4,504: H2 HCL: HC Work Order Comments ADaPT www.xenco.com Reporting: Level II | Level III EDD State of Project: Deliverables: 890-2253 Chain of Custody Program: ANALYSIS REQUEST 12 jennings @ ensolum.com Chlorides HOLL X STEX X Email: Kales Jennings Cont Pres. Code # of Parameters Bill to: (if different) Company Name: Comp Grab/ ma City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm No No 10.7 3.7 Rush 2.4 Address: Depth Turn Around 5 + 6 5 19797 Routine Due Date: Corrected Temperature: Sampled 5001 Wet Ice: Temperature Reading: Time 1009 5101 1010 0101 5101 Correction Factor: Thermometer ID: 5 X No Caster 19 Fed 604H Date Sampled 46/40 Yes No Marien Feld Suite 400 Midland Lale Jenning 3503 Matrix 030 2014007 Yes No WITH F 5 Consolum LL Temp Blank: JOHNEY Shere res No Yes No 817.683 2 Sample Identification Samples Received Intact: Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Project Manager: Project Number ampler's Name: **Fotal Containers**: company Name: Project Location: City, State ZIP: roject Name: 405 t Frote FC07 F509 FS0.1 £509 Address: Phone: PO #:

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Environment Testing Xenco

💸 eurofins

Chain of Custody

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Project Manager:				Bill to: (if different)	0				Work Order Comments	ıts
Company Name:				Company Name:				Program: UST/PST	r□ PRP□ Brownfields□	s
Address:				Address:				State of Project:		
City. State ZIP:				City, State ZIP:				Reporting: Level II Level III	☐ Level III ☐ PST/UST	PST/UST TRRP LevelIV
Phone:			Email:					Deliverables: EDD	O ☐ ADaPT ☐	Other:
Project Name:	40 (19 Her 19 Find OUTH	# FOO	Turn	Turn Around			ANALYSIS REQUEST	QUEST	Δ.	Preservative Codes
er:	670200 HOOT		Routine	Rush	Pres. Code				None: NO	NO DI Water: H ₂ O
			Due Date:						Cool: Cool	_
Sampler's Name: Convol	Short		TAT starts the	TAT starts the day received by					HCL: HC	
PO #:			the lab, if rece	the lab, if received by 4:30pm	s				H250 4: H2	:H2 NaOH:Na
SAMPLE RECEIPT 1	Temp Blank:	Yes No	Watte:	Yes No	:Teter:				H₃PO₄: HP	H.
Samples Received Intact:	TO NO	Hermometer ID:			men				NaHSC	NaHSO 4: NABIS
	Yes No N/A	Correction Bactoy	actoy <5	ر د	eq.	57			Na ₂ S ₂ t	Na ₂ S ₂ O ₃ : NaSO ₃
1	Yes No N/A T	Temberature Reading:	e Reading:	1		pi			Zn Ace	Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	emperature:	7	X	10			NaOH+	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date	Time	Depth Grab/	118	197			S	Sample Comments
	-	sampled	Sampled	4	-					
FSIA	^	66/53	1510	0.5.	4	4				
Smo?	_	-	0011	16-9	-					
SMOVE				0.4.						
FONS			1110	16-0						
SWDA	7	>	1355	7 140	7	→ >				
	/									
53										
Total 200.7 / 6010 20	200.8 / 6020:		8RCRA 13PPM	Texas 11		Ba Be B Cd	Ca Cr Co	N Se	Se Ag SiO ₂ Na Sr Tl Sn U V Zn Ha: 1631 / 245.1 / 7470 / 7471	U V Zn /7471
Circle Method(s) and Metal(s) to be alialyzed	II(s) to be allaly	nazi	וכני / או	r colo	SV SC VAL	200				. 11 11
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, fra 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 service. Eurofins Xenco, will be liable only for the cost of samples and shall not a summer and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	inquishment of sample: y for the cost of sample 85.00 will be applied to	s constitutes a v is and shall not each project a	valld purchase orde assume any respoi nd a charge of \$5 fi	er from client companistibility for any losses or each sample submit	y to Eurofins Xen or expenses Incui tted to Eurofins X	co, its affiliates and red by the client if enco, but not anah	subcontractors. It assigns standard such losses are due to circumstances yzed. These terms will be enforced ur	terms and conditions beyond the control less previously negotiated.		
Relinquished by: (Signature)	(e)	Received	Received by: (Signature)		Date	Date/Time	Relinquished by: (Signature)	ature) Receive	Received by: (Signature)	Date/Time
167	2	·	X		1/11/11	12:5 7	2			
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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2253-1

 SDG Number: 03D2024007

List Source: Eurofins Carlsbad

Login Number: 2253 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.	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	

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Eurofins Carlsbad

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2253-1

 SDG Number: 03D2024007

List Source: Eurofins Midland List Creation: 04/29/22 10:53 AM

Login Number: 2253 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	

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<6mm (1/4").



APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2124350596
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party				OGRID	OGRID		
Contact Nam	ne			Contact T	Telephone		
Contact emai	il			Incident #	(assigned by OCI	D)	
Contact mail	ing address			<u> </u>			
			Location	of Release S	Source		
Latitude				Longitude			
			(NAD 83 in dec	cimal degrees to 5 deci	imal places)		
Site Name				Site Type			
Date Release Discovered				API# (if ap	API# (if applicable)		
Unit Letter	Unit Letter Section Township Range Co				nty	_	
Surface Owner: State Federal Tribal Private (Name:)							
Surface Owner: State Federal Private (Name:)							
Nature and Volume of Release							
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)							
Crude Oil		Volume Release		curculations of specifi		overed (bbls)	
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
			tion of dissolved c	hloride in the	☐ Yes ☐ No		
Пол	4.	produced water			Volume Recovered (bbls)		
Condensa		Volume Release			` ′		
Natural G		Volume Release			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/We	ight Recovered (provide units)		
- an I							
Cause of Rele	ease						

Received by OCD: 10/31/20229:32:00 Am State of New Mexico
Page 2 Oil Conservation Division

I	Page	e 12:00	eof	20	6
C 4	160	FOX	_		

Incident ID	NAPP2124350596
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?			
X Yes No					
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?			
	Initial Re	esponse			
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
☐ The impacted area ha	s been secured to protect human health and	the environment.			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.					
All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why:					
D. 10.15.20.0 D. (4) NH					
has begun, please attach	a narrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.			
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notified ment. The acceptance of a C-141 report by the O tate and remediate contamination that pose a threat	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws			
Printed Name		Title:			
Signature:	tan Esparge	Date:			
email:		Telephone:			
OCD Only					
Received by: Ramona N	Marcus	Date: 8/31/2021			

					Estimate Form				
Received by OCD: 1	<i>0/31/2022</i> :9:3.	2:00 AMry Name & Number:	NOCASTER 19 FEE	DERAL #4H BATTERY (LEASE #NM6	68820)		NAPP21243	50596	Page 201e of 206
		Asset Area:	NDBE - DB EAST F	ROUTE					
	Rel	ease Discovery Date & Time:	8/19/21 @ 11:00Pl	N.					
		Release Type:	Oil						
	Provide any kn				CH CAUSED THE DUMP VALVE NOT TO POLY LINE CAUSING IT TO RESULTING			BBER AND WENT OUT	T FLARE LINE, HEAT
	Was the	e release on pad or off-pad?	See reference table below						
Has it r	ained at least a h	alf inch in the last 24 hours?	See reference table below						
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than O (bbl.)
Rectangle A	50.0	30.0	0.38	15.12%	8.344	1.262			,000

1.335

0.973

0.668

0.417

0.223

0.042

0.000

0.000

0.000

Total Volume Release:

0.202

0.147

0.101

0.063

0.034

0.006

0.000

0.000

0.000

1.815

15.12%

15.12%

15.12%

15.12%

15.12%

15.12%

30.0

30.0

30.0

30.0

30.0

10.0

Released to Imaging: 12/8/2022 1:21:23 PM

Rectangle B Rectangle C

Rectangle D

Rectangle E Rectangle F

Rectangle G

Rectangle H

Rectangle I

4.0

3.5

3.0

2.5

2.0

1.5

0.75

0.63

0.50

0.38

0.25

0.19

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

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

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

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

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

CONDITIONS

Action 45615

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	45615
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	8/31/2021

	Page 203 of 20	06
Incident ID	NAPP2124350596	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

Inis 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</u> (ft bgs)	
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 well Field data	ls.	

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
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
□ Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

Received by OCD: 10/31/2022 9:32:00 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

I uge Zot oj Zoo	Page	204	of.	<i>206</i>
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Incident ID	NAPP2124350596
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Charles Beauvais	Title: _Senior Environmental Engineer	
Signature:	Date:10/27/2022	
email: _Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043	
oon o l		
OCD Only		
Received by:	Date:10/31/2022	

Received by OCD: 10/31/2022 9:32:00 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division Page 205 of 206
ID NAPP2124350596

Incident ID NAPP2124350596
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
Signature:	Date:10/27/2022
email:Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043
OCD Only	
Received by: Jocelyn Harimon	Date:10/31/2022
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

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

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

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

CONDITIONS

Action 154896

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	154896
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	12/8/2022