

June 3, 2022

District 1 New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240

Re: Closure Request

Uncle Sam 13 Federal 001

Incident Number NAPP2204545095

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of ConocoPhillips Company (COP), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Uncle Sam 13 Federal 001 (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, COP is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2204545095.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 13, Township 18 South, Range 32 East, in Lea County, New Mexico (32.750278° N, 103.713889°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On January 28, 2022, corrosion of a flow line resulted in the release of approximately 0.094 barrels (bbls) of produced water onto the lease road and adjacent pasture. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; however, there were no free-standing fluids to recover. COP reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 14, 2022. The release was assigned Incident Number NAPP2204545095.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-06131, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



approximately 2 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 100 feet bgs and a total depth of 194 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 1.5 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

A reclamation standard 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 ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On March 22, 2022, site assessment activities were conducted to evaluate the release extent. Based on visible indications of the release on the lease road and adjacent pasture, excavation activities were warranted. To confirm the lateral extent of the release, four lateral delineation soil samples (SS01 through SS04) were collected around the visible release extent from a depth of 0.5 feet bgs. The delineation samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil samples SS01 through SS04, collected around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards. Based on the laboratory analytical results, the lateral extent of the release was successfully defined and excavation of the visible release extent proceeded.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS



On March 14, 2022, impacted soil was excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed via hand shoveling and back-hoe. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 1-foot bgs. Photographic documentation is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor 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 and FS02 were collected from the floor of the excavation from a depth of 1-foot bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation measured approximately 400 square feet. A total of approximately 15 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R30 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.

Laboratory analytical results for excavation floor samples FS01 and FS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 28, 2022, release of produced water. Laboratory analytical results for the excavation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards. Additionally, the release was laterally delineated to the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COP backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 50 feet bgs and no other sensitive receptors were identified near the release extent. COP believes these remedial actions are protective of human health, the environment, and groundwater. COP respectfully requests closure for Incident Number NAPP2204545095. The Final C-141 is included in Appendix D.

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

Since Cale

Sincerely, Ensolum, LLC

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Xalui Jennings



Kalei Jennings Senior Scientist Aimee Cole Senior Managing Scientist

cc: Charles Beauvais, ConocoPhillips Bureau of Land Management

Appendices:

Figure 1 S	ite Receptor Map
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Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

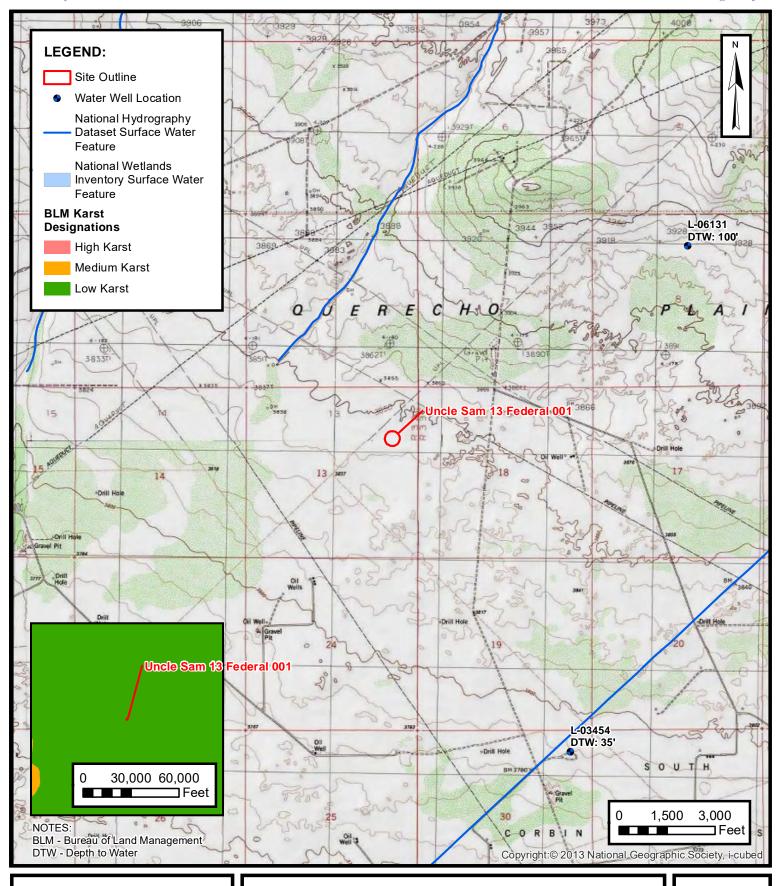
Appendix B Photographic Log

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

Appendix D Final C-141



FIGURES



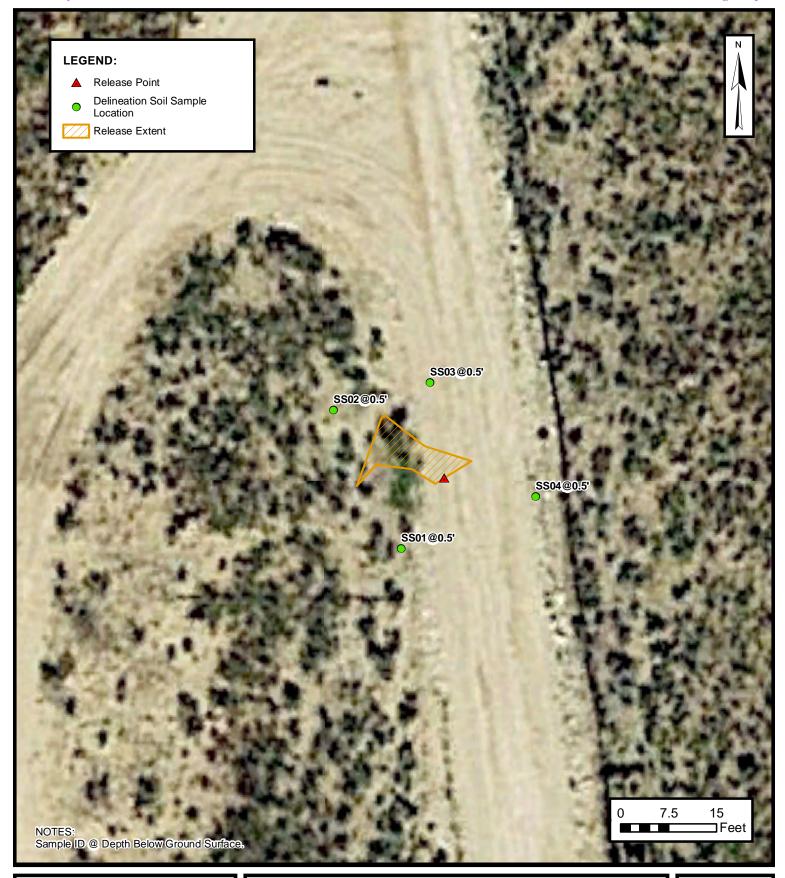


SITE LOCATION MAP

CONOCOPHILLIPS COMPANY UNCLE SAM 13 FEDERAL 001 NAPP2204545095

Unit H, Sec 13, T18S, R32E Lea County, New Mexico FIGURE

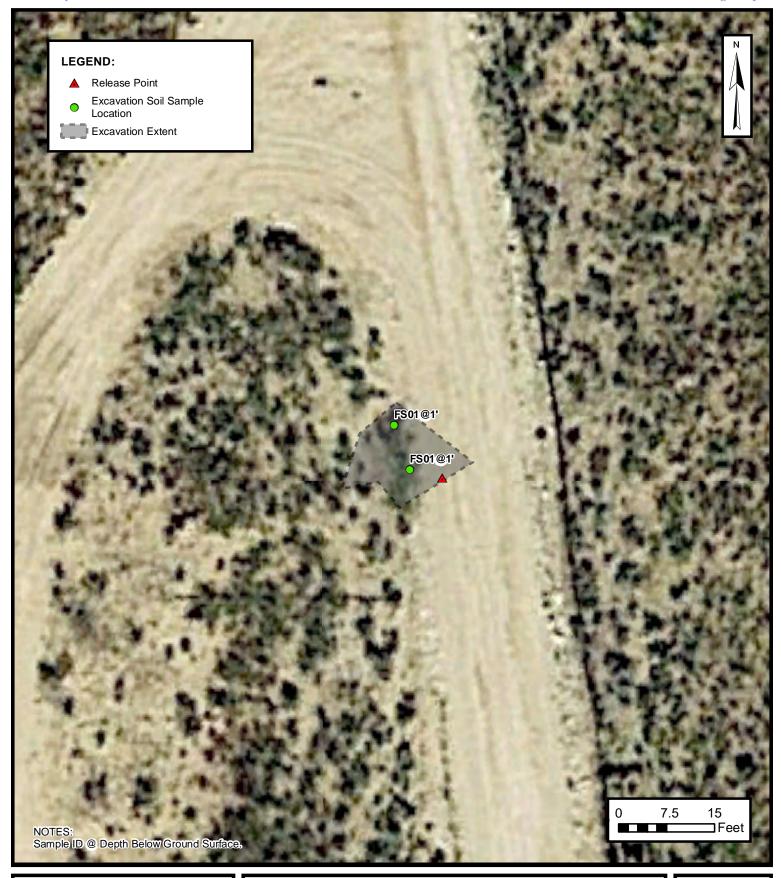
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DELINEATION SOIL SAMPLE LOCATIONS

CONOCOPHILLIPS COMPANY UNCLE SAM 13 FEDERAL 001 NAPP2204545095 Unit H, Sec 13, T18S, R32E Lea County, New Mexico **FIGURE**





EXCAVATION SOIL SAMPLE LOCATIONS

CONOCOPHILLIPS COMPANY UNCLE SAM 13 FEDERAL 001 NAPP2204545095 Unit H, Sec 13, T18S, R32E Lea County, New Mexico **FIGURE**



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Uncle Sam 13 Federal 001 ConocoPhillips Company Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
	Lateral Delineation Soil Samples									
SS01	03/22/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	49.6*
SS02	03/22/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5.06*
SS03	03/22/2022	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	13.7*
SS04	03/22/2022	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	54.9*
	Excavation Floor Soil Samples									
FS01	03/22/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	532*
FS02	03/22/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	556*

Notes:

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

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

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

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

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: L 06131 Subbasin: L Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: SCHARBAUER CATTLE COMPANY

Contact: BOB JAMES

Documents on File

Status From/
Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

® gg 507170 72121 1967-04-28 PMT LOG L 06131 T 3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

L 06131 Shallow 3 1 2 08 18S 33E 623241 3626167*

An () after northing value indicates UTM location was derived from PLSS - see Help

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

3/8/22 3:34 PM WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws

Q64 Q16 Q4 Sec Tws Rng

X Y

L 06131 3 1 2 08 18S 33E

623241 3626167*

ø

Driller License: 99 **Driller Company:**

O.R. MUSSELWHITE WATER WELL SE

Driller Name:

Drill Start Date: 04/27/1967

27/1967 **Drill Finish Date:**

04/29/1967 **Plug Date:**

ug Date.

Log File Date:

05/02/1967

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00 **Depth Well:**

Casing Perforations:

194 feet

Depth Water:

100 feet

Water Bearing Stratifications:

Top Bottom Description

130 185 135 Sandstone/Gravel/Conglomerate193 Sandstone/Gravel/Conglomerate

Top Bottom

150 194

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

3/8/22 3:34 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
obdo water Resources	(Cooperator Access)	Site Information	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

USGS 324458103454301 18S.32E.16.22433

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 32°45'05", Longitude 103°45'51" NAD27 Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: 100 feet

Land surface altitude: 3,796.00 feet above NGVD29.

Well completed in "Other aguifers" (N9999OTHER) national aguifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1968-03-18	1968-03-18	1
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

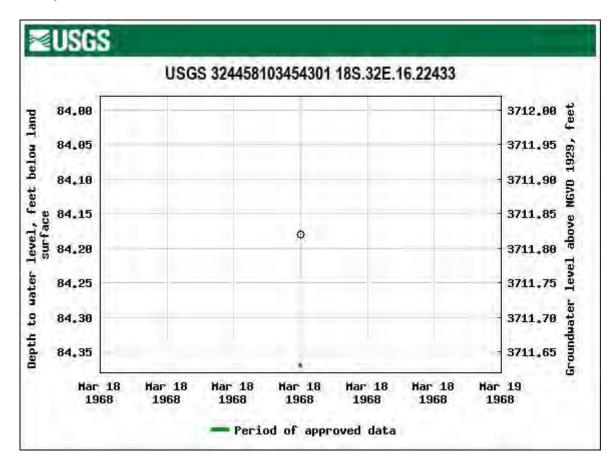
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324458103454301

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2022-03-08 17:30:26 EST

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APPENDIX B

Photographic Log



Photographic Log

ConocoPhillips Company Uncle Sam 13 Federal 001 Incident Number NAPP2204545095



Photograph 1

Date: March 22, 2022

Description: View of release area and excavation activities.



Photograph 2

Date: March 22, 2022

Description: View of open excavation.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2122-1

Laboratory Sample Delivery Group: 3140320.000 TASK 45.02

Client Project/Site: UNCLE SAM 13 FEDERAL 001

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 4/1/2022 6:07:51 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Links

Review your project results through

IOIOIACCESS

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/6/2022 3:05:22 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

3

_

6

7

10

12

13

Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001 Laboratory Job ID: 890-2122-1 SDG: 3140320.000 TASK 45.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2122-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 3140320.000 TASK 45.02

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**

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

Duplicate Error Ratio (normalized absolute difference) DER

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)

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

Case Narrative

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1

SDG: 3140320.000 TASK 45.02

Job ID: 890-2122-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2122-1

Receipt

The sample was received on 3/22/2022 12:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22266 and analytical batch 880-22323 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

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

Matrix: Solid

Lab Sample ID: 890-2122-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-2122-1

Project/Gife: UNIOL F. CAM 43 FEBERAL 204

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02

Client Sample ID: SS04

Date Collected: 03/22/22 09:57

Date Received: 03/22/22 12:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/25/22 07:30	03/25/22 11:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 07:30	03/25/22 11:04	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/25/22 07:30	03/25/22 11:04	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/25/22 13:37	1
Analyte Total TPH		Qualifier	RL 49.8	Unit ma/Ka	D	Prepared	Analyzed 03/24/22 16:08	Dil Fac
Iotal IPH	<49.8	U	49.8	mg/Kg			03/24/22 16:08	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
	ge Organics (D	(00)						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	• • •	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 03/23/22 11:44	Analyzed 03/23/22 13:23	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>.</u>		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	03/23/22 11:44	03/23/22 13:23	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U U	49.8	mg/Kg	<u>D</u>	03/23/22 11:44	03/23/22 13:23	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	mg/Kg	<u>D</u>	03/23/22 11:44 03/23/22 11:44 03/23/22 11:44	03/23/22 13:23 03/23/22 13:23 03/23/22 13:23	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U U	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u>D</u>	03/23/22 11:44 03/23/22 11:44 03/23/22 11:44 <i>Prepared</i>	03/23/22 13:23 03/23/22 13:23 03/23/22 13:23 Analyzed	1 1 1 Dil Fac
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 U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	03/23/22 11:44 03/23/22 11:44 03/23/22 11:44 Prepared 03/23/22 11:44	03/23/22 13:23 03/23/22 13:23 03/23/22 13:23 Analyzed 03/23/22 13:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chronalyte	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	03/23/22 11:44 03/23/22 11:44 03/23/22 11:44 Prepared 03/23/22 11:44	03/23/22 13:23 03/23/22 13:23 03/23/22 13:23 Analyzed 03/23/22 13:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2122-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2122-1	SS04	106	111	
890-2122-1 MS	SS04	108	104	
890-2122-1 MSD	SS04	107	111	
LCS 880-22266/1-A	Lab Control Sample	103	111	
LCSD 880-22266/2-A	Lab Control Sample Dup	105	112	
MB 880-22266/5-A	Method Blank	100	104	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	e (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)
		1001	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2119-A-1-F MS	Matrix Spike	101	107	
390-2119-A-1-G MSD	Matrix Spike Duplicate	100	106	
390-2122-1	SS04	86	94	
Surrogate Legend				
1CO = 1-Chlorooctane				

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22186/2-A	Lab Control Sample	93	101	
LCSD 880-22186/3-A	Lab Control Sample Dup	93	100	
MB 880-22186/1-A	Method Blank	98	114	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1

SDG: 3140320.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22266/5-A

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22266

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 07:30	03/25/22 10:42	1

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03	3/25/22 07:30	03/25/22 10:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03	3/25/22 07:30	03/25/22 10:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22266

Lab Sample ID: LCS 880-22266/1-A Matrix: Solid

Analysis Batch: 22323

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08853	-	mg/Kg		89	70 - 130	
Toluene	0.100	0.08731		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09324		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09386		mg/Kg		94	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Added Benzene 0.100 Toluene 0.100 Ethylbenzene 0.100 m-Xylene & p-Xylene 0.200	Analyte Added Result Benzene 0.100 0.08853 Toluene 0.100 0.08731 Ethylbenzene 0.100 0.09324 m-Xylene & p-Xylene 0.200 0.1909	Analyte Added Result Qualifier Benzene 0.100 0.08853 Toluene 0.100 0.08731 Ethylbenzene 0.100 0.09324 m-Xylene & p-Xylene 0.200 0.1909	Analyte Added Result Qualifier Unit Benzene 0.100 0.08853 mg/Kg Toluene 0.100 0.08731 mg/Kg Ethylbenzene 0.100 0.09324 mg/Kg m-Xylene & p-Xylene 0.200 0.1909 mg/Kg	Analyte Added Benzene Result Qualifier Unit Unit Unit D Benzene 0.100 0.08853 mg/Kg Toluene 0.100 0.08731 mg/Kg Ethylbenzene 0.100 0.09324 mg/Kg m-Xylene & p-Xylene 0.200 0.1909 mg/Kg	Analyte Added Result Qualifier Unit D %Rec Benzene 0.100 0.08853 mg/Kg 89 Toluene 0.100 0.08731 mg/Kg 87 Ethylbenzene 0.100 0.09324 mg/Kg 93 m-Xylene & p-Xylene 0.200 0.1909 mg/Kg 95	Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.08853 mg/Kg 89 70 - 130 Toluene 0.100 0.08731 mg/Kg 87 70 - 130 Ethylbenzene 0.100 0.09324 mg/Kg 93 70 - 130 m-Xylene & p-Xylene 0.200 0.1909 mg/Kg 95 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22323

Lab Sample ID: LCSD 880-22266/2-A

Prep Type: Total/NA Prep Batch: 22266

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08920		mg/Kg		89	70 - 130	1	35	
Toluene	0.100	0.08871		mg/Kg		89	70 - 130	2	35	
Ethylbenzene	0.100	0.09388		mg/Kg		94	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130	1	35	
o-Xylene	0.100	0.09509		mg/Kg		95	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: 890-2122-1 MS

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: SS04 Prep Type: Total/NA

Prep Batch: 22266

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0996	0.06367	F1	mg/Kg		64	70 - 130	
Toluene	<0.00200	U F1	0.0996	0.07260		mg/Kg		71	70 - 130	

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-2122-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02

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

Lab Sample ID: 890-2122-1 MS

Analysis Batch: 22323

Client Sample ID: SS04 **Matrix: Solid** Prep Type: Total/NA Prep Batch: 22266

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07681		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1597		mg/Kg		79	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08081		mg/Kg		80	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	· Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 890-2122-1 MSD

Client Sample ID: SS04 Matrix: Solid Prep Type: Total/NA Prep Batch: 22266 **Analysis Batch: 22323**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0992	0.07252		mg/Kg		73	70 - 130	13	35
Toluene	<0.00200	U F1	0.0992	0.06862	F1	mg/Kg		68	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0992	0.07502		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1562		mg/Kg		77	70 - 130	2	35
o-Xylene	<0.00200	U	0.0992	0.07864		mg/Kg		78	70 - 130	3	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

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

M

C10-C28)

Lab Sample ID: MB 880-22186/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 22176	Prep Batch: 22186
MR MR	

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
	(GRO)-C6-C10								
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
	C10-C28) Oll Range Organics (Over C28-C36)	<50.0	11	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
ı	Oil Narige Organics (Over 020-030)	~30.0	O	30.0	mg/itg		03/23/22 00.44	03/23/22 10.33	'

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98	70 - 130	03/23/22 08:44	03/23/22 10:59	1
o-Terphenyl	114	70 - 130	03/23/22 08:44	03/23/22 10:59	1

Lab Sample ID: LCS 880-22186/2-A

Matrix: Solid

Matrix: Solid							Prep ⁻	Гуре: Total/NA
Analysis Batch: 22176							Prep	Batch: 22186
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1095		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	900.2		mg/Kg		90	70 - 130	

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Client Sample ID: Lab Control Sample

Job ID: 890-2122-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02

Prep Batch: 22186

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 22186

Prep Type: Total/NA

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

Lab Sample ID: LCS 880-22186/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22176

Recovery Qualifity 93	LCS	
%Recovery	Qualifier	Limits
93		70 - 130
101		70 - 130

Lab Sample ID: LCSD 880-22186/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Surrogate 1-Chlorooctane o-Terphenyl

Analysis Batch: 22176							Prep Batch: 2218			
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1155		mg/Kg		115	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	1000	935.4		mg/Kg		94	70 - 130	4	20	

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 93 70 - 130 70 - 130 o-Terphenyl 100

Lab Sample ID: 890-2119-A-1-F MS

Matrix: Solid

Analysis Batch: 22176

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	876.0		mg/Kg		88	70 - 130
Diesel Range Organics (Over	<49.8	U	998	820.7		mg/Kg		79	70 - 130

C10-C28)

	IVIS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-2119-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 22176

Matrix: Solid

Analysis Batch: 22176									Prep	Batch:	22186
	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	<49.8	U	999	886.4		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	821.1		mg/Kg		79	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-2122-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A

Lab Sample ID: LCS 880-22471/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 22735

Matrix: Solid

Matrix: Solid

Chloride

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/01/22 08:54

Client Sample ID: Lab Control Sample

90 - 110

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

95

Prep Type: Soluble

Analysis Batch: 22735

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits

250

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

238.2

mg/Kg

Analysis Batch: 22735

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 237.5 mg/Kg 90 - 110

Lab Sample ID: 890-2125-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 49.6 250 298.4 100 90 - 110 mg/Kg

Lab Sample ID: 890-2125-A-1-H MSD

Matrix: Solid

Analysis Batch: 22735

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 49.6 292.0 mg/Kg 98 90 - 110 20

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2122-1

 Project/Site: UNCLE SAM 13 FEDERAL 001
 SDG: 3140320.000 TASK 45.02

GC VOA

Prep Batch: 22266

Lab Sample ID 890-2122-1	Client Sample ID SS04	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-22266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2122-1 MS	SS04	Total/NA	Solid	5035	
890-2122-1 MSD	SS04	Total/NA	Solid	5035	

Analysis Batch: 22323

Lab Sample ID 890-2122-1	Client Sample ID SS04	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 22266
MB 880-22266/5-A	Method Blank	Total/NA	Solid	8021B	22266
LCS 880-22266/1-A	Lab Control Sample	Total/NA	Solid	8021B	22266
LCSD 880-22266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22266
890-2122-1 MS	SS04	Total/NA	Solid	8021B	22266
890-2122-1 MSD	SS04	Total/NA	Solid	8021B	22266

Analysis Batch: 22358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	8015B NM	22186
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015B NM	22186
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22186
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22186
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22186
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22186

Prep Batch: 22186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-2122-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 3140320.000 TASK 45.02

HPLC/IC (Continued)

Leach Batch: 22471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2122-1

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 3140320.000 TASK 45.02 Client Sample ID: SS04 Lab Sample ID: 890-2122-1

Date Collected: 03/22/22 09:57 Matrix: Solid

Date Received: 03/22/22 12:53

	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	22266	03/25/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/25/22 11:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22358	03/25/22 13:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22288	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 10:58	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Laboratory: Eurofins Midland

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2122-1 SDG: 3140320.000 TASK 45.02

Project/Site: UNCLE SAM 13 FEDERAL 001

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1

SDG: 3140320.000 TASK 45.02

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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

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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

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Sample Summary

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1

SDG: 3140320.000 TASK 45.02

	au . a						
Lab Sample ID	Client Sample ID	Matrix	Collected Received Depth				
890-2122-1	SS04	Solid	03/22/22 09:57	03/22/22 12:53	0.5		

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Houston, TX (281) 240-4200	
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody

1181W	Relinquished by: (Signature)	Notice: Signature of this docu of service. Xenco will be liabl of Xenco. A minimum charge	Total 200.7 / 6010 Circle Method(s)				SS04	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Pa	P.O. Number:	Project Number:	Project Name: Un	Phone: 81	City, State ZIP: Mix	Address: 33	Company Name: W:	Project Manager: Ka	-
1 AM	ignature)	ment and relinquishment of e only for the cost of sampl of \$75.00 will be applied to	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				S	ation Matrix	Yes No WILA	Yes No NA	Kgs No	0.00	Temp Blank:	Payton Benner		31403720.000 Task 45.02	Uncle Sam 13 Federal 001	817-683-2503	Midland, Texas 79705	3300 North A Street Building 1, unit 222	WSP USA	Kalei Jennings	*
Of M DUI	Received by: (Signature)	samples constitutes a ves and shall not assume es and shall not assume each project and a charg	8A				03/22/22 9:	Date Ti Sampled Sam	Total Containers:	Correction Factor:	NW-00	Thermo	Yes No			Task 45.02	001			ilding 1, unit 222			Hobbs,NM (57
	ignature)	alid purchase order from any responsibility for any e of \$5 for each sample a	ICRA 13PPM Texas 11 AI				9:57 0.5	Time Depth	ainers:	actor: ~0.7	207	Thermometer ID	Wet Ice: I'ves No	Due Date:	Rush:	Routine D	Turn Around	Email: Kalei.jennings@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	75-392-7550) Phoenix,A
622 22	Date	client compan losses or exp ubmitted to Xe			-		×	Numb	-		_	iners	1					s@wsp.co		3300	ne: WSP USA		Z (480-355-0
22 13	Date/Time	y to Xenco, it enses incurr nco, but not	Sb As Ba Be Sb As Ba Be				×	BTEX	-			-						IB	Midland, Texas 79705	North A St	USA	Kalei Jennings	900) Atlant
1353	Relinquished by: (Signature)	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 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 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 enforced unless previously negotiated.	B Cd Ca Cr Cd Cr Co Cu				×	Chlorid				"					ANALYSIS REQUEST		79705	3300 North A Street Building 1, unit 222			Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
	ature) Received by: (Signature)	ns standard terms and conditions circumstances beyond the control inless previously negotiated.	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 J Pb Mn Mo Ni Se Ag Tl U						_	o90-2122 Chain of Custody				-			JEST	Deliverables: EDD	Level III	State of Project:	Program: UST/PST PRP Brownfields	Work Orde	3-620-2000) www.xenco.com
	ature) Date/Time		SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg				DISCRETE	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	ADaPT LJ Other:	Ę	ב ב	wnfields RC Juperfund	Work Order Comments	om Page1_ of1_

Work Order No:

Revised Date 051418 Rev 2018.1

Carlsbad, NM 88220 1089 N Canal St.

Eurofins Carlsbad

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Chain of Custody Record

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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 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 aboratory 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. SS04 (890-2122-1) Sample Identification - Client ID (Lab ID) **Eurofins Environment Testing South Centr** Empty Kit Relinquished by Deliverable Requested I, II, III, IV, Other (specify) Midland 1211 W Florida Ave Phone: 575-988-3199 Fax: 575-988-3199 Possible Hazard Identification UNCLE SAM 13 FEDERAL 001 132-704-5440(Tel) Shipping/Receiving Client Information elinquished by elinquished by elinquished by nconfirmed Custody Seals Intact: Yes 8 $\overline{\mathcal{Z}}$ (Sub Contract Lab) Custody Seal No زو ى رو QJ Project #: 89000048 Primary Deliverable Rank. 2 PO# Due Date Requested Phone Sampler Date/Time SSOW# TAT Requested (days): Date/Time)ate/Time Sample Date 3/22/22 Date Mountain Sample 09 57 Time (C=comp, G=grab Sample Preservation Code: Type Company Company Matrix Solid Kramer, Jessica jessica kramer@eurofinset.com E-Mail ab PM Field Filtered Sample (Yes or No) NELAP - Louisiana, NELAP - Texas Time: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH Received by × Cooler Temperature(s) °C and Other Remarks × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6036FP_Calc BTEX Total_BTEX_GCV × Analysis Requested 8015MOD_Calc × New Mexico State of Origin: Carrier Tracking No(s): Date Limber Ô **Total Number of containers** 00 COC No: 890-682 1 A - HCL
B NaOH
C - Zn Acetate
C - Zn Acetate
D Nitric Acid
E - NaHSO4
E - NaHSO4
F - Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA Preservation Codes Page 1 of 1 390-2122-1 Special Instructions/Note: 8 M Hexane
N-None
O AsNaO2
P-Na2O4S
Q Na2SO3
R Na2SCO3
R Na2SCO3
S H2SO4
I-TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Ver: 06/08/2021 Company

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2122-1

SDG Number: 3140320.000 TASK 45.02

Login Number: 2122 List Source: Eurofins 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: 890-2122-1

SDG Number: 3140320.000 TASK 45.02

List Source: Eurofins Midland

Login Number: 2122 List Number: 2 List Creation: 03/23/22 10:55 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	
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 <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2123-1

Laboratory Sample Delivery Group: 31403720.000 task 45.02

Client Project/Site: Uncle Sam 13 Federal 001

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 4/1/2022 6:07:51 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

results through

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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: Uncle Sam 13 Federal 001 Laboratory Job ID: 890-2123-1 SDG: 31403720.000 task 45.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2123-1 Project/Site: Uncle Sam 13 Federal 001

SDG: 31403720.000 task 45.02

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) 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 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: WSP USA Inc.

Job ID: 890-2123-1 SDG: 31403720.000 task 45.02 Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2123-1

Receipt

The sample was received on 3/22/2022 12:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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.

Eurofins Carlsbad 4/1/2022

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2123-1

Project/Site: Uncle Sam 13 Federal 001 SDG: 31403720.000 task 45.02 **Client Sample ID: SS03** Lab Sample ID: 890-2123-1

Date Collected: 03/22/22 09:55 Date Received: 03/22/22 12:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 01:13	
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 01:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 12:30	03/27/22 01:13	
1,4-Difluorobenzene (Surr)	110		70 - 130			03/25/22 12:30	03/27/22 01:13	
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			03/28/22 13:11	
Method: 8015 NM - Diesel Range			RL	Unit	D	Drawarad	Amalumad	Dil Fa
Analyte		Qualifier				Prepared	Analyzed	
Total TPH	<49.7	U	49.7	mg/Kg			03/24/22 16:08	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	89		70 - 130			03/23/22 11:44	03/23/22 13:43	
o-Terphenyl	98		70 - 130			03/23/22 11:44	03/23/22 13:43	
Method: 300.0 - Anions, Ion Chro								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			4.97	mg/Kg				

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2123-1 Project/Site: Uncle Sam 13 Federal 001 SDG: 31403720.000 task 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-U MS	Matrix Spike	103	110	
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112	
890-2123-1	SS03	106	110	
LCS 880-22286/1-A	Lab Control Sample	108	112	
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limi	its)
		1001	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-2119-A-1-F MS	Matrix Spike	101	107		
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106		
890-2123-1	SS03	89	98		
Surrogate Legend					
1CO = 1-Chlorooctane					

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22186/2-A	Lab Control Sample	93	101	
LCSD 880-22186/3-A	Lab Control Sample Dup	93	100	
MB 880-22186/1-A	Method Blank	98	114	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2123-1 Project/Site: Uncle Sam 13 Federal 001 SDG: 31403720.000 task 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A

Lab Sample ID: LCS 880-22286/1-A

Matrix: Solid Analysis Batch: 22424 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/26/22 20:25	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22286

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1052 mg/Kg 105 70 - 130 Toluene 0.100 0.1048 mg/Kg 105 70 - 130 0.100 0.1083 108 Ethylbenzene mg/Kg 70 - 130 0.200 0.2283 70 - 130 m-Xylene & p-Xylene mg/Kg 114 0.100 0.1097 o-Xylene mg/Kg 110 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-22286/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 22424

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 22286

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 35 Benzene 0.100 0.1058 mg/Kg 106 70 - 130 0 Toluene 0.100 0.1063 mg/Kg 106 70 - 130 35 Ethylbenzene 0.100 0.1099 mg/Kg 110 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2326 mg/Kg 116 70 - 130 35 0.100 0.1125 o-Xylene mg/Kg 113 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-12547-A-1-U MS

Matrix: Solid

Analysis Batch: 22424

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

Prep Batch: 22286

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08375		mg/Kg		84	70 - 130	
Toluene	0.00232		0.0996	0.08300		mg/Kg		81	70 - 130	

Prep Batch: 22286

Prep Type: Total/NA

Prep Batch: 22186

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2123-1 SDG: 31403720.000 task 45.02 Project/Site: Uncle Sam 13 Federal 001

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

Lab Sample ID: 880-12547-A-1-U MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22424

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0996	0.08902		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.00613		0.199	0.1826		mg/Kg		89	70 - 130	
o-Xylene	0.00221		0.0996	0.09140		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-12547-A-1-V MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

								Prep	Batch:	22286
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00201	U	0.100	0.08729		mg/Kg		87	70 - 130	4	35
0.00232		0.100	0.08596		mg/Kg		83	70 - 130	4	35
<0.00201	U	0.100	0.09215		mg/Kg		90	70 - 130	3	35
0.00613		0.200	0.1891		mg/Kg		91	70 - 130	4	35
0.00221		0.100	0.09486		mg/Kg		92	70 - 130	4	35
	Result <0.00201 0.00232 <0.00201 0.00613	<0.00201 U 0.00613	Result Qualifier Added	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Sample Result Sample Qualifier Spike Added Result MSD Qualifier Unit Unit Unit Unit Unit Unit Unit Unit	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00201

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-22186/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 22176

	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		03/23/22 08:44	03/23/22 10:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/23/22 08	03/23/22 10:59	
o-Terphenyl	114		70 - 130	03/23/22 08	:44 03/23/22 10:59	1

Lab Sample ID: LCS 880-22186/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 22176							Prep	Batch: 22186
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1095		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	900.2		mg/Kg		90	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

Project/Site: Uncle Sam 13 Federal 001

Client: WSP USA Inc.

Job ID: 890-2123-1

SDG: 31403720.000 task 45.02

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

100 100

Lab Sample ID: LCS 880-22186/2-A

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 22186

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-22186/3-A Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Matrix: Solid**

Analysis Batch: 22176 Prep Batch: 22186

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1155		mg/Kg		115	70 - 130	5	20
(GRO)-C6-C10 Diesel Range Organics (Over	1000	935.4		mg/Kg		94	70 - 130	4	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane o-Terphenyl 100 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-2119-A-1-F MS

Matrix: Solid

Analysis Batch: 22176 Prep Batch: 22186 Sample Sample Spike MS MS

Result Qualifier Analyte Result Qualifier Added Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 876.0 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 820.7 mg/Kg 79 70 - 130

C10-C28)

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 101 o-Terphenyl 107 70 - 130

MS MS

Lab Sample ID: 890-2119-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 22176 Prep Batch: 22186 Camania Camania Cailes

	Sample	Sample	эріке	MOD	MISD				%Rec		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U	999	886.4		mg/Kg		89	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.8	U	999	821.1		mg/Kg		79	70 - 130	0	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2123-1 Project/Site: Uncle Sam 13 Federal 001

SDG: 31403720.000 task 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/01/22 08:54

Lab Sample ID: LCS 880-22471/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 238.2 mg/Kg 95 90 - 110

MB MB

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 237.5 mg/Kg 90 - 110

Lab Sample ID: 890-2125-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 49.6 250 298.4 100 90 - 110 mg/Kg

Lab Sample ID: 890-2125-A-1-H MSD

Matrix: Solid

Analysis Batch: 22735

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 49.6 292.0 mg/Kg 98 90 - 110 20

QC Association Summary

Job ID: 890-2123-1 Client: WSP USA Inc. Project/Site: Uncle Sam 13 Federal 001 SDG: 31403720.000 task 45.02

GC VOA

Prep Batch: 22286

Lab Sample ID 890-2123-1	Client Sample ID SS03	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Total/NA	Solid	8015B NM	22186
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015B NM	22186
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22186
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22186
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22186
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22186

Prep Batch: 22186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-2123-1 Project/Site: Uncle Sam 13 Federal 001 SDG: 31403720.000 task 45.02

HPLC/IC (Continued)

Leach Batch: 22471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-2123-1

 Project/Site: Uncle Sam 13 Federal 001
 SDG: 31403720.000 task 45.02

Client Sample ID: SS03 Lab Sample ID: 890-2123-1

Date Collected: 03/22/22 09:55
Date Received: 03/22/22 12:53
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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 01:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22492	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22289	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 11:06	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2123-1

 Project/Site: Uncle Sam 13 Federal 001
 SDG: 31403720.000 task 45.02

Laboratory: Eurofins Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for v
the agency does not of	' '	t the laboratory to not our in	ed by the governing additionty. This list the	ly include analytes for v
the agency does not of Analysis Method	' '	Matrix	Analyte	y include analytes for v
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1

SDG: 31403720.000 task 45.02

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: Uncle Sam 13 Federal 001

Job ID: 890-2123-1

SDG: 31403720.000 task 45.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2123-1	SS03	Solid	03/22/22 09:55	03/22/22 12:53	0.5

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ABCRATORIES

Project Manager:

Kalei Jennings

Bill to: (il different)

Kalei Jennings

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Work Order Comments

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) 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 Chain of Custody

	Received by: (Signature) Date/Time	It assigns standard terms and conditions The due to circumstances beyond the control The due to circumstances beyond the control The control the control that t	He Po Mg Min Mo Ni K Se Ag SIOZ NA SI II SI O V ZII NMO Ni Se Ag TI U 1631/245.1/7470/7471:Hg	A- SOO No St TI SS II V			DISCRETE	Sample Comments	iau, ii receiveu uy 4.3upiii	TAT	of Custody						Work Order Notes	Deliverables: EDD	Level III LST/UST LR		
0 4 0	Relinquished by: (Signature)		d Cr Co Cu Pb M								890-2123 Chain of Custody						ANALYSIS REQUEST	Deli			
32222 12532	Date/Time	ent company to Xenco, its affil isses or expenses incurred by mitted to Xenco, but not analy	11				× × ×	TPH (BTEX	EPA 8	0=8	021)							@wsp.com	Midland, Texas 79705	3300 North A Street Building 1, unit 222	
	ature)	purchase order from cli responsibility for any lo \$5 for each sample sub	TCLP / SPLP 6010: 8RCRA	11 1			0.5	Depth	ers:	for:	100	ter ID	Wet Ice: (Ves) No	Due Date:	Rush:	Routine 🖊	Turn Aroupd	Email: Kalei.jennings@wsp.com	City, State ZIP:	Address:	
don	Received by: (Signature)	amples constitutes a valic and shall not assume an ich project and a charge o	e e	11 1			03/22/22 9:55	Sampled Sampled	Total Co	Correction Factor:	JWW	Thermometer ID	(Yes) No Wet	0	R		31	Eπ		ling 1, unit 222	
	(Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, 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 a 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 e	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				S	ification Matrix	s: Yes No NA	Yes No	(Yeg) No	30/1.8	PT Temp Blank:	Payton Benner		31403720.000 Task 45.02	Uncle Sam 13 Federal 001	817-683-2503	Midland, Texas 79705	3300 North A Street Building 1, unit 222	0.000
3 Mell	Relinquished by:	Notice: Signature of this d of service. Xenco will be li of Xenco. A minimum chai	Total 200.7 / 6010 Circle Method(s) :				SSO3	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:		City, State ZIP:	Address:	Company Marrie

Carlsbad, NM 88220

1089 N Canal St

Eurofins Carlsbad

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Chain of Custody Record

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💸 eurofins

Environment Testing

SS03 (890-2123-1) Sample Identification - Client ID (Lab ID) Midland 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 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 altertion 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. 432-704-5440(Tel) TX 79701 State, Zip: 1211 W Florida Ave, mpty Kit Relinquished by Deliverable Requested I II III IV Other (specify) Jncle Sam 13 Federal 001 shipping/Receiving Phone 575-988-3199 Fax 575-988-3199 ossible Hazard Identification elinquished by: elinquished by urofins Environment Testing South Centr lient Information finquished by: nconfirmed Custody Seals Intact. Yes No (Sub Contract Lab) Custody Seal No 8 Project #: 89000048 PO#: Phone: Date/Time Date/Time Primary Deliverable Rank. 2 TAT Requested (days): Sampler Sample Date 3/22/22 Date Requested Date Mountair 09 55 (C=comp, G=grab) Sample Type Preservation Code: Company Company Matrix Solid jessica.kramer@eurofinset.com
Accreditations Required (See note):
NELAP - Louisiana, NELAP - Texas Kramer, Jessica Field Filtered Sample (Yes or No) I Ime Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements Received 8015MOD NM/8015NM S Prep Full TPH Cooler Temperature(s) °C and Other Remarks × Return To Client 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc BTEX × Total_BTEX_GC\ Analysis Requested × 8015MOD_Calo Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Nethod of Shipment Coate/Tage Date/Time Ś Ţ Archive For Total Number of containers W G Amchlor
H Ascorbic Acid
I Ice
J- DI Water
K EDTA
L EDA A HCL
B-NaOH
C Zn Acetate
D-Nitric Acid
E NaHSO4
F MeOH COC No 890-682 1 Preservation Codes Page 1 of 1 90-2123-1 \mathcal{Q} Special Instructions/Note (V)rd Hexane
N None
Cetate O AsNaO2
Acid P Na2O4S
Q Na2SO3
R Na2SC03
S-12SO4
T TSP Dodecahydrate
U Acetone
V MCAA
V PL
V PL Company Ver 06/08/2021 other (specify) Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2123-1

SDG Number: 31403720.000 task 45.02

Login Number: 2123 List Source: Eurofins 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: 890-2123-1

SDG Number: 31403720.000 task 45.02

List Source: Eurofins Midland List Creation: 03/23/22 10:55 AM

Login Number: 2123 List Number: 2

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	
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 <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2124-1

Laboratory Sample Delivery Group: 31403720.000 TASK 45.02

Client Project/Site: UNCLE SAM 13 FEDERL 001

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 4/1/2022 6:08:27 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: 7/6/2022 3:05:22 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.

Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERL 001 Laboratory Job ID: 890-2124-1 SDG: 31403720.000 TASK 45.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2124-1 Project/Site: UNCLE SAM 13 FEDERL 001

SDG: 31403720.000 TASK 45.02

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) 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 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: WSP USA Inc.

Job ID: 890-2124-1 SDG: 31403720.000 TASK 45.02 Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2124-1

Receipt

The sample was received on 3/22/2022 12:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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.

Eurofins Carlsbad 4/1/2022

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2124-1

Project/Site: UNCLE SAM 13 FEDERL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: SS02

Lab Sample ID: 890-2124-1 Date Collected: 03/22/22 09:52 Matrix: Solid Date Received: 03/22/22 12:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 01:33	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 01:33	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/27/22 01:33	
1,4-Difluorobenzene (Surr)	103		70 - 130			03/25/22 12:30	03/27/22 01:33	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/28/22 13:11	
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg		Тторагса	03/24/22 16:08	
Method: 8015B NM - Diesel Rang	ge 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		03/23/22 11:44	03/23/22 14:04	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:04	•
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	82		70 - 130			03/23/22 11:44	03/23/22 14:04	
o-Terphenyl	90		70 - 130			03/23/22 11:44	03/23/22 14:04	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2124-1 Project/Site: UNCLE SAM 13 FEDERL 001 SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-U MS	Matrix Spike	103	110	
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112	
890-2124-1	SS02	108	103	
LCS 880-22286/1-A	Lab Control Sample	108	112	
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenzer	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Accepta
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2119-A-1-F MS	Matrix Spike	101	107	
90-2119-A-1-G MSD	Matrix Spike Duplicate	100	106	
390-2124-1	SS02	82	90	
Surrogate Legend				

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22186/2-A	Lab Control Sample	93	101	
LCSD 880-22186/3-A	Lab Control Sample Dup	93	100	
MB 880-22186/1-A	Method Blank	98	114	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 890-2124-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERL 001

SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A

Lab Sample ID: LCS 880-22286/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 22424

Analysis Batch: 22424

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25	/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25	/22 12:30	03/26/22 20:25	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22286

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1052 mg/Kg 105 70 - 130 Toluene 0.100 0.1048 mg/Kg 105 70 - 130 0.100 0.1083 108 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.2283 70 - 130 mg/Kg 114 0.100 0.1097 70 - 130 o-Xylene mg/Kg 110

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22286

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2326		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1125		mg/Kg		113	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-12547-A-1-U MS

Lab Sample ID: LCSD 880-22286/2-A

Matrix: Solid

Analysis Batch: 22424

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

Prep Batch: 22286

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08375		mg/Kg		84	70 - 130	
Toluene	0.00232		0.0996	0.08300		mg/Kg		81	70 - 130	

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Released to Imaging: 7/6/2022 3:05:22 PM

Prep Batch: 22286

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2124-1 SDG: 31403720.000 TASK 45.02 Project/Site: UNCLE SAM 13 FEDERL 001

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

Lab Sample ID: 880-12547-A-1-U MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22424

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0996	0.08902		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.00613		0.199	0.1826		mg/Kg		89	70 - 130	
o-Xylene	0.00221		0.0996	0.09140		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-12547-A-1-V MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22424

								Prep	Battin:	22200
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00201	U	0.100	0.08729		mg/Kg		87	70 - 130	4	35
0.00232		0.100	0.08596		mg/Kg		83	70 - 130	4	35
<0.00201	U	0.100	0.09215		mg/Kg		90	70 - 130	3	35
0.00613		0.200	0.1891		mg/Kg		91	70 - 130	4	35
0.00221		0.100	0.09486		mg/Kg		92	70 - 130	4	35
	Result <0.00201 0.00232 <0.00201 0.00613	<0.00201 U 0.00613	Result Qualifier Added <0.00201	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Sample Result Sample Qualifier Spike Added Added MSD Result Qualifier Unit Unit Unit Unit Unit Unit Unit Unit	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00201

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

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

Lab Sample ID: MB 880-22186/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 22176

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/23/22 08:44	03/23/22 10:59	1
o-Terphenyl	114		70 - 130	03/23/22 08:44	03/23/22 10:59	1

Lab Sample ID: LCS 880-22186/2-A

Matrix: Solid

Matrix: Solid							Prep ⁻	Гуре: Total/NA
Analysis Batch: 22176							Prep	Batch: 22186
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1095		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	900.2		mg/Kg		90	70 - 130	

Client Sample ID: Lab Control Sample

Prep Batch: 22186

Eurofins Carlsbad

C10-C28)

Client: WSP USA Inc. Job ID: 890-2124-1 Project/Site: UNCLE SAM 13 FEDERL 001

SDG: 31403720.000 TASK 45.02

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

LCS LCS

Lab Sample ID: LCS 880-22186/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 22176

Prep Type: Total/NA

Prep Batch: 22186

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 101 70 - 130

Lab Sample ID: LCSD 880-22186/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22176

Prep Type: Total/NA

Prep Batch: 22186

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1155 115 70 - 1305 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 935.4 mg/Kg 94 70 - 13020

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-2119-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22176

Prep Type: Total/NA

Prep Batch: 22186

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 876.0 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 820.7 mg/Kg 79 70 - 130 C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl 107

Lab Sample ID: 890-2119-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 22176

Matrix: Solid Prep Type: Total/NA Prep Batch: 22186

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U	999	886.4		mg/Kg		89	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.8	U	999	821.1		mg/Kg		79	70 - 130	0	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2124-1 Project/Site: UNCLE SAM 13 FEDERL 001 SDG: 31403720.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Method Blank

Prep Type: Soluble

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/01/22 08:54

Lab Sample ID: LCS 880-22471/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 238.2 mg/Kg 95 90 - 110

MB MB

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 237.5 mg/Kg 90 - 110

Lab Sample ID: 890-2125-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 49.6 250 298.4 100 90 - 110 mg/Kg

Lab Sample ID: 890-2125-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 49.6 292.0 mg/Kg 98 90 - 110 20

QC Association Summary

Job ID: 890-2124-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERL 001 SDG: 31403720.000 TASK 45.02

GC VOA

Prep Batch: 22286

Lab Sample ID 890-2124-1 MB 880-22286/5-A LCS 880-22286/1-A	Client Sample ID SS02 Method Blank Lab Control Sample	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 5035 5035 5035	Prep Batch
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Total/NA	Solid	8015B NM	22186
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015B NM	22186
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22186
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22186
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22186
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22186

Prep Batch: 22186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Total/NA	Solid	8015NM Prep	
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2124-1

 Project/Site: UNCLE SAM 13 FEDERL 001
 SDG: 31403720.000 TASK 45.02

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HPLC/IC (Continued)

Leach Batch: 22471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

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Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-2124-1

Project/Site: UNCLE SAM 13 FEDERL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: SS02 Lab Sample ID: 890-2124-1

Date Collected: 03/22/22 09:52

Date Received: 03/22/22 12:53

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			5.01 g	5 mL	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 01:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22493	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22290	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 14:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 11:15	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2124-1 Project/Site: UNCLE SAM 13 FEDERL 001

SDG: 31403720.000 TASK 45.02

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
,	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo
the agency does not of				
Analysis Method	Prep Method	Matrix	Analyte	
		0.11.1	TILITOU	
8015 NM		Solid	Total TPH	

Method Summary

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1

SDG: 31403720.000 TASK 45.02

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: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1

SDG: 31403720.000 TASK 45.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2124-1	SS02	Solid	03/22/22 09:52	03/22/22 12:53	0.5

Houston, TX (2) 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	Midland, TX (432-70	douston,TX (281) 24
Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-330 EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	4-5440))-4200
	 EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1290 	Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-33

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		5 2 2 2 1 253 ²		Lan M	Chill U	1 Spli
) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	ature)	Received by: (Signature)	/: (Signature)	Relinquished by: (Signature)
. It assigns standard terms and conditions re due to circumstances beyond the control inforced unless previously negotiated.	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 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 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 enforced unless previously negotiated.	ent company to Xenco, its affil sses or expenses incurred by mitted to Xenco, but not analy:	purchase order from cl responsibility for any lo \$5 for each sample sub	samples constitutes a valid s and shall not assume any ach project and a charge o	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors 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 a 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 e	Notice: Signature of this of service. Xenco will be of Xenco. A minimum ct
1631 / 245.1 / 7470 /	r Co Cu Pb Mi		<u>o</u> p	9	ana	Circle Method
Fe Pb Ma Mn Mo Ni K Se Aa SiO2 Na Sr Tl Sn U V Zn	Cd Ca Cr Co Cu Fe Pb Ma	Al Sh As Ra Re B	13PPM Texas 11	BBCBA 1	010 200 8 / 6020	Total 200 7 / 6010
DISCRETE		× × ×	0.5	03/22/22 9:52	S S	SS02
Sample Comments		TPH (E BTEX (Depth	Date Time Sampled Sampled	ntification Matrix	Sample Identification
lab, if received by 4:30pm		PA 80	ers:	Total Containers:	Yes No	Sample Custody Seals:
of Custody TAT starts the day recevied by the	890-2124 Chain of Custody)15) D=80	tor: -0,2	Correction Factor:	Yes No	Cooler Custody Seals:
		21)	804	WW 00	Say No	Received Intact:
		ers	Ice: 168 No	Med No Wet Ice:		SAMPLE RECEIPT
			Due Date:	0	Payton Benner	Sampler's Name:
			Rush:	B		P.O. Number:
			Routine		31403720.000 Task 45.02	Project Number:
T Work Order Notes	ANALYSIS REQUEST		Turn Around	01	Uncle Sam 13 Federal 001	Project Name:
Deliverables: EDD ADaPT Other:	De	@wsp.com	Email: Kalei.jennings@wsp.com	En	817-683-2503	Phone:
Reporting:Level III		Midland, Texas 79705	City, State ZIP:		Midland, Texas 79705	City, State ZIP:
	Building 1, unit 222	3300 North A Street Building 1, unit 222	Address:	ding 1, unit 222	3300 North A Street Building 1, unit 222	Address:
Program: UST/PST PRP Brownfields RC Juperfund	Pr	e: WSP USA	Company Name		WSP USA	Company Name:
Work Order Comments		Kalei Jennings	Bill to: (if different)		Kalei Jennings	Project Manager:
2000) www.xenco.com Page 1_of 1_	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	(480-355-0900) Atlanta,GA	392-7550) Phoenix,A.	Hobbs,NM (575-		-

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Work Order No:

Revised Date 051418 Rev. 2018 1

Eurofins Carlsbad

1089 N Canal St.

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 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 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 attention immediately. SS02 (890-2124-1) Sample Identification - Client ID (Lab ID) Eurofins Environment Testing South Centr Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 Possible Hazard Identification 432-704-5440(Tel) Empty Kit Relinquished by Deliverable Requested I, II, III, IV Other (specify) JNCLE SAM 13 FEDERL 001 Midland 1211 W Florida Ave Shipping/Receiving elinquished by: elinquished by: Custody Seals Intact. linquished by: lient Information Yes ö (Sub Contract Lab) Custody Seal No 2220 89000048 Sampler Primary Deliverable Rank. 2 **V**0# PO# TAT Requested (days): Due Date Requested Date/Time hone Date/Time Sample Date 3/22/22 Date Mountair Sample 09 52 G=grab) (C=comp, Sample Preservation Code: Type Company Company Matrix Solid E-Mail. jessica.kramer@eurofinset.com Kramer, Jessica Lab PM: Field Filtered Sample (Yes or No) NELAP - Louisiana, NELAP - Texas I Ime. Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH × Cooler Temperature(s) °C and Other Remarks Return To Client 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/6035FP_Calc BTEX × Total_BTEX_GCV Analysis Requested 8015MOD Calc × Disposal By Lab New Mexico State of Origin Carrier Tracking No(s): Archive For Total Number of containers S _ A HCL
B NACH
C Zn Acetate
D - Nitric Acid
E NaHSO4
F- MeOH
G Amchior
H - Ascorbic Acid
I ice
J - Di Water
K EDTA
L EDA COC No: 890-682 1 Preservation Codes 890-2124-1 Page 1 of 1 D D Special Instructions/Note: M Hexane
N - None
O AsNa02
P - Na204S
Q Na2S03
R Na2S03
R Na2S03
S H2S04
T TSP Dodecahydrate
U Acctone < \subset \dashv ω ϖ Ver 06/08/202 Months other (specify) E

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2124-1

SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Carlsbad

Login Number: 2124 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: 890-2124-1

SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Midland List Creation: 03/23/22 10:55 AM

Login Number: 2124 List Number: 2

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	
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 <6mm (1/4").	N/A	

Released to Imaging: 7/6/2022 3:05:22 PM

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2125-1

Laboratory Sample Delivery Group: 31403720.000 TASK 45.02

Client Project/Site: UNCLE SAM 13 FEDERAL 001

For:

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

Attn: Kalei Jennings

SCRAMER

Authorized for release by: 4/1/2022 6:08:44 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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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: UNCLE SAM 13 FEDERAL 001 Laboratory Job ID: 890-2125-1 SDG: 31403720.000 TASK 45.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2125-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 31403720.000 TASK 45.02

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) 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 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: WSP USA Inc.

Job ID: 890-2125-1 SDG: 31403720.000 TASK 45.02 Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2125-1

Receipt

The sample was received on 3/22/2022 12:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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.

Eurofins Carlsbad 4/1/2022

Matrix: Solid

Lab Sample ID: 890-2125-1

Client Sample Results

Job ID: 890-2125-1 Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: SS01 Date Collected: 03/22/22 09:50 Date Received: 03/22/22 12:53

Sample Depth: 0.5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/25/22 12:30	03/27/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/25/22 12:30	03/27/22 01:54	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/25/22 12:30	03/27/22 01:54	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Rang	e Organics (DR)	O) (GC)						
modica. ou io itin - bicsel italig	0 0. ga00 (D. t	-, (,						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/24/22 16:08	Dil Fac
Analyte		Qualifier U			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U			<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg	=	<u> </u>	03/24/22 16:08	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9	mg/Kg	=	Prepared	03/24/22 16:08 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 03/23/22 11:44	03/24/22 16:08 Analyzed 03/23/22 14:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/23/22 11:44 03/23/22 11:44	03/24/22 16:08 Analyzed 03/23/22 14:25 03/23/22 14:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/23/22 11:44 03/23/22 11:44	03/24/22 16:08 Analyzed 03/23/22 14:25 03/23/22 14:25	Dil Face 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Ran 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	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/23/22 11:44 03/23/22 11:44 03/23/22 11:44 Prepared	03/24/22 16:08 Analyzed 03/23/22 14:25 03/23/22 14:25 03/23/22 14:25 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Ran 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 Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/23/22 11:44 03/23/22 11:44 03/23/22 11:44 Prepared 03/23/22 11:44	03/24/22 16:08 Analyzed 03/23/22 14:25 03/23/22 14:25 Analyzed 03/23/22 14:25	Dil Face 1 Dil Face 1

5.00

49.6

mg/Kg

Eurofins Carlsbad

04/01/22 11:24

Chloride

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2125-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-U MS	Matrix Spike	103	110	
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112	
890-2125-1	SS01	109	110	
LCS 880-22286/1-A	Lab Control Sample	108	112	
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			
DFBZ = 1,4-Difluorobenzen	e (Surr)			

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

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2119-A-1-F MS	Matrix Spike	101	107	
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106	
390-2125-1	SS01	86	95	
Surrogate Legend				
1CO = 1-Chlorooctane				

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22186/2-A	Lab Control Sample	93	101	
LCSD 880-22186/3-A	Lab Control Sample Dup	93	100	
MB 880-22186/1-A	Method Blank	98	114	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc. Job ID: 890-2125-1 SDG: 31403720.000 TASK 45.02 Project/Site: UNCLE SAM 13 FEDERAL 001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A

Analysis Batch: 22424

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 22286

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25	/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25	/22 12:30	03/26/22 20:25	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22286

Lab Sample ID: LCS 880-22286/1-A **Matrix: Solid**

Analysis Batch: 22424

	Spike	CS LCS			%Rec	
Analyte	Added Re	sult Qualifier	Unit D	%Rec	Limits	
Benzene	0.100 0.1	052	mg/Kg	105	70 - 130	
Toluene	0.100 0.1	048	mg/Kg	105	70 - 130	
Ethylbenzene	0.100 0.1	083	mg/Kg	108	70 - 130	
m-Xylene & p-Xylene	0.200 0.2	283	mg/Kg	114	70 - 130	
o-Xylene	0.100 0.1	097	mg/Kg	110	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 22286

Analysis Batch: 22424

Matrix: Solid

Lab Sample ID: LCSD 880-22286/2-A

	Spike	LCSD L	.CSD				%Rec		RPD
Analyte	Added	Result Q	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2326		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1125		mg/Kg		113	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1 4-Difluorobenzene (Surr)	111	70 - 130

Matrix: Solid

Analysis Batch: 22424

Lab Sample ID: 880-12547-A-1-U MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22286

MS MS Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits <0.00201 U 0.0996 84 70 - 130 Benzene 0.08375 mg/Kg Toluene 0.00232 0.0996 0.08300 mg/Kg 81 70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2125-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

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

Lab Sample ID: 880-12547-A-1-U MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 22424

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.0996 0.08902 88 70 - 130 mg/Kg m-Xylene & p-Xylene 0.00613 0.199 0.1826 mg/Kg 89 70 - 130 0.00221 0.0996 o-Xylene 0.09140 90 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-12547-A-1-V MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22424

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 22286

Prep Batch: 22286 RPD

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00201 U 0.08729 mg/Kg 87 70 - 130 4 35 0.00232 Toluene 0.100 0.08596 mg/Kg 83 70 - 130 4 35 Ethylbenzene <0.00201 0.100 0.09215 90 70 - 130 35 U mg/Kg 3 0.00613 0.200 70 - 130 35 m-Xylene & p-Xylene 0.1891 mq/Kq 0.00221 0.100 0.09486 92 70 - 130 o-Xylene mg/Kg

MSD MSD

мв мв

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-22186/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 22176

Prep Type: Total/NA Prep Batch: 22186

Client Sample ID: Lab Control Sample

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 03/23/22 08:44 03/23/22 10:59 <50.0 U mg/Kg (GRO)-C6-C10 03/23/22 10:59 Diesel Range Organics (Over <50.0 U 50.0 03/23/22 08:44 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/23/22 08:44 03/23/22 10:59 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/23/22 08:4	03/23/22 10:59	1
o-Terphenyl	114		70 - 130	03/23/22 08:4	4 03/23/22 10:59	1

Lab Sample ID: LCS 880-22186/2-A **Matrix: Solid**

Analysis Batch: 22176

Prep Batch: 22186 LCS LCS Snike

	- P						,0.100
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1095		mg/Kg		109	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	900.2		mg/Kg		90	70 - 130
C10-C28)							

Eurofins Carlsbad

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-2125-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 31403720.000 TASK 45.02

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

Lab Sample ID: LCS 880-22186/2-A

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22186

1-Chlorooctane 93 o-Terphenyl 101 70 - 130

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCSD 880-22186/3-A Client Sample ID: Lab Control Sample Dup

Limits

70 - 130

Matrix: Solid

Surrogate

Analysis Batch: 22176

Prep Type: Total/NA Prep Batch: 22186

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1155 115 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 935.4 94 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane 100 70 - 130 o-Terphenyl

Lab Sample ID: 890-2119-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22176

Prep Type: Total/NA

Prep Batch: 22186

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 876.0 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 820.7 mg/Kg 79 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl 107

Lab Sample ID: 890-2119-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 22176

Released to Imaging: 7/6/2022 3:05:22 PM

Matrix: Solid

Prep Type: Total/NA Prep Batch: 22186

Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit U 999 886.4 89 Gasoline Range Organics <49.8 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 821.1 mg/Kg 79 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 100 70 - 130 106 70 - 130 o-Terphenyl

Job ID: 890-2125-1

Client Sample ID: Method Blank

SDG: 31403720.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Project/Site: UNCLE SAM 13 FEDERAL 001

Prep Type: Soluble

Client Sample ID: SS01

Prep Type: Soluble

Lab Sample ID: MB 880-22471/1-A

Matrix: Solid

Analysis Batch: 22735

Client: WSP USA Inc.

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/01/22 08:54

Lab Sample ID: LCS 880-22471/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 238.2 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 237.5 90 - 110 mg/Kg

Lab Sample ID: 890-2125-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 49.6 250 298.4 100 90 - 110 mg/Kg

Lab Sample ID: 890-2125-1 MSD

Matrix: Solid

Analysis Batch: 22735

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 49.6 292.0 mg/Kg 98 90 - 110 20

QC Association Summary

Job ID: 890-2125-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Total/NA	Solid	5035	
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Total/NA	Solid	8015B NM	22186
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015B NM	22186
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22186
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22186
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22186
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22186

Prep Batch: 22186

Lab Sample ID 890-2125-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Soluble	Solid	DI Leach	- · · · · · ·
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2125-1

 Project/Site: UNCLE SAM 13 FEDERAL 001
 SDG: 31403720.000 TASK 45.02

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HPLC/IC (Continued)

Leach Batch: 22471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1 MS	SS01	Soluble	Solid	DI Leach	
890-2125-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
890-2125-1 MS	SS01	Soluble	Solid	300.0	22471
890-2125-1 MSD	SS01	Soluble	Solid	300.0	22471

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2125-1

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: SS01 Lab Sample ID: 890-2125-1

Date Collected: 03/22/22 09:50 Matrix: Solid Date Received: 03/22/22 12:53

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 01:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22494	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22291	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 11:24	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: 890-2125-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

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	s NELAP		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	
A al: - Made - al					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		

Method Summary

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1

SDG: 31403720.000 TASK 45.02

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1

SDG: 31403720.000 TASK 45.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2125-1	SS01	Solid	03/22/22 09:50	03/22/22 12:53	0.5

Chain of Custody

					Ch	ain	으	Chain of Custody	Work Order No:	
X	XMZCO		Houston,T	X (281) 240-420	0 Dalla	s,TX (2:	4) 902	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	034	
100		Hobbs,	місіано, чм (575-392-7	1X (432-704-344 (550) Phoenix,A2	V) EL 1	55-090	(9 (3)3 0) Atla	midialrd, וא (אסבירטיאים איטן בר Faso, וא (פוסטיסיאים בעטטטטאי, וא (פוסטיסיאים בעטטטטאי, וא (פוסטיסיאים בעטטטטא Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	813-620-2000) <u>www.xenco.com</u> ² age1of	
Project Manager:	Kalei Jennings			Bill to: (if different)	~	Kalei Jennings	nnings			
	WSP USA			Company Name:		WSP USA	SA		Program: UST/PST PRP Brownfields RC Juperfund	ā
	3300 North A Street Building 1, unit 222	uilding 1, unit 2		Address:		300 No	orth A	3300 North A Street Building 1, unit 222	ı	İ
e ZIP:	Midland, Texas 79705			City, State ZIP:	2	Midland	Texa	Midland, Texas 79705	Reporting:Level II Level III ST/UST RRP Dvel IV	<
	817-683-2503		Email:	Email: Kalei.jennings@wsp.com	@wsi	.com			Deliverables: EDD ☐ ADaPT ☐ Other:	
Project Name:	Uncle Sam 13 Federal 001	1001	Tur	Turn Around				ANALYSIS RE	REQUEST Work Order Notes	otes
er:	31403720.000 Task 45.02	Task 45.02	Routine	Z						
P.O. Number:			Rush:							
Sampler's Name:	Payton Benner		Due Date:)ate:						
SAMPLE RECEIPT	PT Temp Blank:	c: Os No	Wet Ice:	Pes No						
Temperature (°C):	_	T#	Thermometer ID	1	iners)	890.2125		
Cooler Custody Seals:	Yes No MA	Correc	Correction Factor:	70,7	Cont	15)	=802	1	TAT starts the day recovied by the	aiod by the
Sample Custody Seals:	Yes	Total	Total Containers:		er of	PA 80	EPA (e (EP	lab, if received by 4:30pm	:30pm
Sample Identification	fication Matrix	Date Sampled	Time Sampled	Depth	Numb	TPH (E	втех (Chlorid	Sample Comments	ents
SS01	S	03/22/22	9:50	0.5	_	×	×	×	DISCRETE	
Total 200.7 / 6010 Circle Method(s)	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8A	8RCRA 13PPM TCLP/SPLP	ICRA 13PPM Texas 11 AI		Sb As Sb As	Ba Ba	Be B Cd Ca Cr Co Cu Fe Be Cd Cr Co Cu Pb Mn V	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Mo Ni Se Ag TI U 1631/245.1/7470/7471:Hg	т 1 71 : Нд
lotice: Signature of this do if service. Xenco will be li if Xenco. A minimum char	cument and relinquishment able only for the cost of samp ge of \$75.00 will be applied to	of samples constitut ples and shall not as o each project and a	tes a valid purch sume any respo charge of \$5 fo	hase order from cl onsibility for any lo r each sample sut	ient con osses or omitted t	npany to expens o Xenco	Xenco, es incui	volice: 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 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$7 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tassigns standard terms and conditions due to circumstances beyond the control orced unless previously negotiated.	
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Eurofins Carlsbad

eurofins Environment Testing
America

Chain of Custody Record

Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199		71911	2000	Çuy I	Č.	2										=					America	
Client Information (Sub Contract Lab)	Sampler [.]			Lab PM Krame	Lab PM Kramer, Jessica	8					್ಟ	Camer Tracking No(s)	ackin	No(s	٣			8 S	COC No: 890-682 1			
	Phone:	- Constitution of the Cons		E-Mail jessic	E-Mail jessica.kramer@eurofinset.com	r@eui	ofinse	con			<u>K</u> &	State of Origin. New Mexico	ojyigin.					<u> </u>	Page Page 1 of 1			
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP Louisiana; NELAP	ons Rec	uired (S	NE LA	U.W.	- Texas	l	l				l	ı	္က င္	Job #: 890-2125-1	ı		
Address 1211 W Florida Ave, ,	Due Date Requested 3/28/2022	Đ.						Ana	alys	lysis Requested	ğ	ste	-					, 힞	Preservation Codes:	od es	**	
City Midland	TAT Requested (days):	ys):							<u> </u>			\dashv	\dashv	\dashv	\dashv			C B A	A - HCL B NaOH C - Zn Acetate	^	M - Hexane N - None O - AsNaO2	
State, Zlp: TX, 79701																		ם חוד	D Nitric Acid E - NaHSO4		○ Na2O4S Q - Na2SO3	
Phone: 432-704-5440(Tel)	PO#												•					±o⊤	G - Amchlor H Ascorbic Acid		K NazszO3 S - H2SO4 T TSP Dodecahydrate	
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Project Name: UNCLE SAM 13 FEDERAL 001	Project #: 89000048				es or		ΓEX										taine		EDA	۸	W - pH 4-5 Z - other (specify)	
Site	SSOW#:				ISD (Y		Calc B	SV .									of cor		Other			
		W	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oil,	eld Filtered erform MS/N	16MOD_NM/8	21B/6036FP_	otal_BTEX_GO	15MOD_Calc							<u> </u>	otal Number					
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SS01 (890-2125-1)	3/22/22	09 50 Mountain		Solid		×	×	×	×		-	-	-	+	╁	+	-	+-				
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Invite. Since laboratory accremiators are subject to change, Euroinis Environment. I esting South Central. LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratores. Ihis 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.	it lesting South Centra love for analysis/tests/ intral, LLC attention im	matrix being ar mediately If al	he ownership of alyzed the sar	nples must be reditations are	yte & accr shipped b current to	editation ack to the	e Eurof	ins Env	pon ou /ironma d Chai	t subco	ting S	outh C	entral	aid of	s sam labora omplic	atory a	to Eu	er ing	torwarded und structions will b s Environment	e prov Testin	in-of-custody If the rided. Any changes to g South Central LLC.	
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Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2125-1

SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Carlsbad Login Number: 2125

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	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2125-1

SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Midland List Creation: 03/23/22 10:55 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 2125

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.	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 <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2126-1

Laboratory Sample Delivery Group: 31403720.000 TASK 45.02

Client Project/Site: UNCLE SAM 13 FEDERAL 001

Revision: 1

For:

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

Attn: Kalei Jennings

KRAMER

Authorized for release by: 4/26/2022 12:00:41 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through

TOTAL TICCOS

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Released to Imaging: 7/6/2022 3:05:22 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

2

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7

10

12

13

Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001 Laboratory Job ID: 890-2126-1 SDG: 31403720.000 TASK 45.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2126-1

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Qualifiers

GC VOA

Qualifier Qualifier Description

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 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.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

1

3

4

5

7

10

12

IR

Job ID: 890-2126-1

Case Narrative

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Job ID: 890-2126-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2126-1

REVISION

The report being provided is a revision of the original report sent on 4/1/2022. The report (revision 1) is being revised due to Per client email, requesting chloride re run on FS02.

Report revision history

Receipt

The samples were received on 3/22/2022 12:53 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 1.8°C

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. Job ID: 890-2126-1

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: FS01 Lab Sample ID: 890-2126-1

Date Collected: 03/22/22 09:15
Date Received: 03/22/22 12:53

Matrix: Solid

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 12:30	03/27/22 02:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/27/22 02:14	1
- Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 13:11	1
- Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	SC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/24/22 16:08	1
- Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:45	1
,	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:45	1
Oll Range Organics (Over C28-C36)								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery	Qualifier	Limits 70 - 130			Prepared 03/23/22 11:44	Analyzed 03/23/22 14:45	Dil Fac

Client Sample ID: FS02

Date Collected: 03/22/22 09:17

Lab Sample ID: 890-2126-2

Matrix: Solid

RL

5.02

Unit

mg/Kg

D

Prepared

Analyzed

04/01/22 11:51

Dil Fac

Date Received: 03/22/22 12:53

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

532

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/27/22 02:35	1

Date Received: 03/22/22 12:53

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

556

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-2126-1

Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Client Sample ID: FS02 Lab Sample ID: 890-2126-2

Date Collected: 03/22/22 09:17

Matrix: Solid

Sample Depth: 1

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130			03/25/22 12:30	03/27/22 02:35	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/24/22 16:08	1
Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)					
	•	ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 03/23/22 11:44	Analyzed 03/23/22 15:06	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	03/23/22 11:44	03/23/22 15:06	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U U U	49.8 49.8	mg/Kg	<u>D</u>	03/23/22 11:44 03/23/22 11:44	03/23/22 15:06 03/23/22 15:06	1 1
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	mg/Kg	<u> </u>	03/23/22 11:44 03/23/22 11:44 03/23/22 11:44	03/23/22 15:06 03/23/22 15:06 03/23/22 15:06	1

RL

4.98

Unit

mg/Kg

Prepared

Analyzed

04/19/22 18:38

Dil Fac

Client: WSP USA Inc.

Job ID: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-U MS	Matrix Spike	103	110	
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112	
890-2126-1	FS01	106	108	
890-2126-2	FS02	108	110	
LCS 880-22286/1-A	Lab Control Sample	108	112	
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111	
MB 880-22286/5-A	Method Blank	101	103	

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)
	1001	OTPH1	
Client Sample ID	(70-130)	(70-130)	
Matrix Spike	101	107	
Matrix Spike Duplicate	100	106	
FS01	89	99	
FS02	83	90	
_	Matrix Spike Matrix Spike Duplicate FS01	Client Sample ID (70-130) Matrix Spike 101 Matrix Spike Duplicate 100 FS01 89	Client Sample ID (70-130) (70-130) Matrix Spike 101 107 Matrix Spike Duplicate 100 106 FS01 89 99

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

		Percent	t Surrogate Recovery (Acceptance L	imits)
	1CO2	OTPH2		
Client Sample ID	(70-130)	(70-130)		
Lab Control Sample	93	101		
Lab Control Sample Dup	93	100		
Method Blank	98	114		
	Lab Control Sample Lab Control Sample Dup	Client Sample ID (70-130) Lab Control Sample Dup 93 Lab Control Sample Dup	Client Sample ID (70-130) (70-130) Lab Control Sample 93 101 Lab Control Sample Dup 93 100	Client Sample ID (70-130) (70-130) Lab Control Sample 93 101 Lab Control Sample Dup 93 100

Client: WSP USA Inc. Job ID: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

	MB	МВ				•	
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg	03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	03/25/22 12:30	03/26/22 20:25	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103	70 - 130	03/25/22 12:30	03/26/22 20:25	1

Lab Sample ID: LCS 880-22286/1-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22286

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-22286/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 22424

Prep Type: Total/NA Prep Batch: 22286

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2326		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1125		mg/Kg		113	70 - 130	3	35

LCSD LCSD

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

Lab Sample ID: 880-12547-A-1-U MS

Matrix: Solid

Analysis Batch: 22424

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

Prep Batch: 22286

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08375		mg/Kg		84	70 - 130	
Toluene	0.00232		0.0996	0.08300		mg/Kg		81	70 - 130	

Prep Batch: 22286

Client: WSP USA Inc. Job ID: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

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

Lab Sample ID: 880-12547-A-1-U MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22424

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0996	0.08902		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.00613		0.199	0.1826		mg/Kg		89	70 - 130	
o-Xylene	0.00221		0.0996	0.09140		mg/Kg		90	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 110

Lab Sample ID: 880-12547-A-1-V MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22424									Prep E	atch: 2	22286
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08729		mg/Kg		87	70 - 130	4	35
Toluene	0.00232		0.100	0.08596		mg/Kg		83	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.09215		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.00613		0.200	0.1891		mg/Kg		91	70 - 130	4	35
o-Xylene	0.00221		0.100	0.09486		mg/Kg		92	70 - 130	4	35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 1,4-Difluorobenzene (Surr) 112 70 - 130

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

<50.0 U

Lab Sample ID: MB 880-22186/1-A

Matrix: Solid

Oll Range Organics (Over C28-C36)

Analysis Batch: 22176							Prep Batch:	22186
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Ū	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

	IVID	IVID					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1-Chlorooctane	98		70 - 130	03/23/22 08:44	03/23/22 10:59	1	
o-Ternhenyl	114		70 - 130	03/23/22 08:44	03/23/22 10:59	1	

50.0

mg/Kg

Lab Sample ID: LCS 880-22186/2-A

Matrix: Solid							Prep Typ	e: lotal/NA
Analysis Batch: 22176							Prep B	atch: 22186
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1095		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	900.2		mg/Kg		90	70 - 130	
C10-C28)								

Eurofins Carlsbad

Client Sample ID: Method Blank

03/23/22 08:44 03/23/22 10:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 890-2126-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 31403720.000 TASK 45.02

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

Lab Sample ID: LCS 880-22186/2-A **Matrix: Solid**

Analysis Batch: 22176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22186

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-22186/3-A

Matrix: Solid

Analysis Batch: 22176

Client Sample	ID: Lab Control	Sample Dup
----------------------	------------------------	-------------------

Prep Type: Total/NA

Prep Batch: 22186

,									
_	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1155		mg/Kg		115	70 - 130	5	20
Diesel Range Organics (Over	1000	935.4		mg/Kg		94	70 - 130	4	20

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130

70 - 130 o-Terphenyl 100

Lab Sample ID: 890-2119-A-1-F MS

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22186

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	876.0		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	998	820.7		mg/Kg		79	70 - 130	

	MS MS	
Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	101	70 - 130
o-Terphenyl	107	70 - 130

Lab Sample ID: 890-2119-A-1-G MSD

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22186

	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	<49.8	U	999	886.4		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over	<49.8	U	999	821.1		mg/Kg		79	70 - 130	0	20

C10-C28)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

Client: WSP USA Inc.

Job ID: 890-2126-1

SDG: 31403720.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A

Project/Site: UNCLE SAM 13 FEDERAL 001

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 22735

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/01/22 08:54	1

Lab Sample ID: LCS 880-22471/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Sp	ke LC	S LCS				%Rec	
Analyte	Add			Unit	D	%Rec	Limits	
Chloride		238.	2	mg/Kg	_	95	90 - 110	

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Chloride	250	237.5		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-2125-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	49.6		250	298.4		mg/Kg	_	100	90 - 110	

Lab Sample ID: 890-2125-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	49.6		248	292.0		ma/Ka		98	90 - 110	2	20	

Lab Sample ID: MB 880-23725/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23785

MB MB

Analyte		lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/19/22 14:03	1

Lab Sample ID: LCS 880-23725/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23785

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	243.2		ma/Ka		97	90 - 110	

Lab Sample ID: LCSD 880-23725/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23785										
	Sp	ike LCSD	LCSD				%Rec		RPD	
Analyte	Ado	ed Resulf	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride		250 242.1		mg/Kg	_	97	90 - 110		20	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 31403720.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-13759-A-12-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23785

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	229		250	463.1		mg/Kg	_	94	90 - 110	

Lab Sample ID: 880-13759-A-12-D MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23785

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	229		250	471.8		mg/Kg		97	90 - 110	2	20

QC Association Summary

Job ID: 890-2126-1 Client: WSP USA Inc. Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	5035	
890-2126-2	FS02	Total/NA	Solid	5035	
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	8021B	22286
890-2126-2	FS02	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	Total BTEX	
890-2126-2	FS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	8015B NM	22186
890-2126-2	FS02	Total/NA	Solid	8015B NM	22186
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015B NM	22186
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22186
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22186
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22186
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22186

Prep Batch: 22186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	8015NM Prep	
890-2126-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-22186/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22186/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22186/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2119-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2119-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Total/NA	Solid	8015 NM	
890-2126-2	FS02	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2126-1

 Project/Site: UNCLE SAM 13 FEDERAL 001
 SDG: 31403720.000 TASK 45.02

HPLC/IC

Leach Batch: 22471

Lab Sample ID 890-2126-1	Client Sample ID FS01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

Leach Batch: 23725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-2	FS02	Soluble	Solid	DI Leach	
MB 880-23725/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23725/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23725/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13759-A-12-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-13759-A-12-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-2	FS02	Soluble	Solid	300.0	23725
MB 880-23725/1-A	Method Blank	Soluble	Solid	300.0	23725
LCS 880-23725/2-A	Lab Control Sample	Soluble	Solid	300.0	23725
LCSD 880-23725/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23725
880-13759-A-12-C MS	Matrix Spike	Soluble	Solid	300.0	23725
880-13759-A-12-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23725

Client: WSP USA Inc.

Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1

SDG: 31403720.000 TASK 45.02

Client Sample ID: FS01 Lab Sample ID: 890-2126-1

Matrix: Solid

Date Collected: 03/22/22 09:15 Date Received: 03/22/22 12:53

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 02:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22495	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22292	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 11:51	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-2126-2

Date Collected: 03/22/22 09:17 **Matrix: Solid**

Date Received: 03/22/22 12:53

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 02:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22495	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22292	03/24/22 16:08	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22186	03/23/22 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22176	03/23/22 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23725	04/18/22 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			23785	04/19/22 18:38	SC	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: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 31403720.000 TASK 45.02

Laboratory: Eurofins Midland

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analyte the agency does not		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc.

Job ID: 890-2126-1 Project/Site: UNCLE SAM 13 FEDERAL 001 SDG: 31403720.000 TASK 45.02

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: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1

SDG: 31403720.000 TASK 45.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2126-1	FS01	Solid	03/22/22 09:15	03/22/22 12:53	1
890-2126-2	FS02	Solid	03/22/22 09:17	03/22/22 12:53	1

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Work Order Comments Work Order Comments Program: UST/PST PRP Brownfields RC Superfund State of Project: Reporting:Level III Level III ST/UST RRP Vel IV Deliverables: EDD ADaPT Other: Work Order Notes ST Work Order Notes TAT starts the day recevied by 4.30pm Sample Comments COMPOSITE COMPOSIT
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Eurofins Carlsbad

eurofins Environment Testing

Chain of Custody Record

1089 N Canal St.	0	Chain of Custody Record	f Cust	ody Re	corc													\$ %	ur.	ুঃ eurotins	S	Env	Environment Testing	tent .	lestir	ଉପ	
Phone: 575-988-3199 Fax: 575-988-3199											1		1						1								
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica	Ø					င္ဆ	Carrier Tracking No(s)	acking	No(s)				COC No: 890-68;	COC No: 890-682.1	_							
1	Phone:			E-Mail jessic	E-Mail jessica.kramer@eurofinset com	@eurc	finset	com			N Sta	State of Origin New Mexico	rigin					Page Page	Page [.] Page 1 of 1	<u>-</u>		1	l		- 1		
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Louisiana, NELAP -	ns Requ	ired (S	ELA!		Texas								2-068 :# qof	Job #: 890-2126-1	۲ ۲				l			
Address 1211 W Florida Ave, ,	Due Date Requested: 3/28/2022	ą.			,			Analy	alysis	s Re	Requested	ste						Pres	∑ erva	tion	Preservation Codes	. ő					
City Midland	TAT Requested (days):	ys):		NY 402000		\exists			\dashv	\dashv		\dashv	一	\neg			, /	B NaOt	NaOH Zn Acetate	tate		0 Z S	N - None O - AsNaO2	N G			
State Zip: TX, 79701				on and a second														m D	D Nitric Acid E - NaHSO4	icid		(D T)	la204	ယေတ			
Phone: 432-704-5440(Tel)	PO#																	# G -	MeOH Amchlor Ascorbic	MeOH Amchlor Ascorbic Acid		→ o z	R Na2S2O3 S - H2SO4 T - TSP Dodecahydrate	പ് _ര വ	vdrat		
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Project Name: UNCLOE SAM 13 FEDERAL 001	Project#: 89000048				s or		ΈX										taine	_ K-1	K-EDIA			o -t	W - pH 4-5 Z other (specify)	pecify	٠		
Site:	SSOW#:				SD (Y		alc B	v						*****			of cor	Other:	7								
		4	Sample Type (C=comp,	Matrix (w=water S=solid, O=waste/oll,	eld Filtered S inform MS/M 16MOD_NM/8	 0_ORGFM_28	21B/6035FP_0	tal_BTEX_GC	15MOD_Calc								ital Number								ļ		
	$\left\langle \cdot \right\rangle$	X	Preservation Code:		X			2000				9					X	317		$\ $	$\ $			$ \mathbf{I} $			
FS01 (890-2126-1)	3/22/22	09 15 Mountain		Solid	×	×	×	×	×																		
FS02 (890-2126-2)	3/22/22	09 17 Mountain		Solid	×	×	×	×	×								٠.,										
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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 aboratory 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 in	ral LLC places th /matrix being an nmediately If all	he ownership o alyzed the san requested acc	of method analy mples must be a preditations are	yte & accreonshipped bac current to d	ditation of the late rete	complia Eurofii	ance up ns Envi signed	oon out ironme i Chain	subco nt Tes of Cus	intract ting So stody a	labora outh C	tories entral ig to s	This	samp aborat nplice	e ship ory or nce to	ment other Euro	t is for rinstr ofins t	warde uction Enviro	ed una s will nment	der ch be pro t Testi	lain-of ovided ing So	Fouston Hany Suth C	dy II chan entral	the ges to LLC.		
Possible Hazard Identification Unconfirmed					Samp	Sample Disposal (A fee	posa.	l (At		may be assessed if samples are retained longer Disposal By Lab Archive For	ass Dis	assessed if san Disposal By Lab	difs By L	amp ab	les a		tain Arct	t ained long Archive For	onge For	ith k	an 1	than 1 month) Mon	nth) Months	ű			
Deliverable Requested I II III, IV, Other (specify)	Primary Deliverable Rank 2	able Rank 2			Special Instructions/QC Requirements	al Instr	uctio	JS/QC	Req	uiren	ients										I						
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	Date/Time:		C	Company	Re	Received by	Оy							Da	Date/Time:			r.				Con	Company				
Δ Yes Δ No					- 6	Cooler I emperature(s) "C and Other Remarks.	mperat	ure(s)	Cand	Other	Kema	₹	1,1	3	14	15	١٧.	1			ļ	Vei	Ver: 06/08/2021)8/20	21	L	

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2126-1 SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Carlsbad

4/26/2022 (Rev. 1)

Login Number: 2126 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	

4/26/2022 (Rev. 1)

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2126-1

SDG Number: 31403720.000 TASK 45.02

List Source: Eurofins Midland
List Number: 2
List Creation: 03/23/22 10:55 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	
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 <6mm (1/4").	N/A	

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APPENDIX D

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	NAPP2204545095
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2204545095
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

			Location	of R	telease Sourc	ee	
Latitude	32.750	278			Longitude	103.713889	
			(NAD 83 in dec	imal de	grees to 5 decimal plac	ces)	
Site Name		Uncle Sam	13 Federal C	01	Site Type	Tank Battery	
Date Release	Discovered	January 28	, 2022		API# (if applicable))	
	I a .:	m 1:	-		~		
Unit Letter	Section	Township	Range		County		
Н	13	18S	32E		Lea		
Surface Owner: State Federal Tribal Private (Name:							
Junice Owner. State Teachar Thour Trivate (Name.							

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)				
Produced Water	Volume Released (bbls) 0.094	Volume Recovered (bbls) 0				
	Is the concentration of dissolved chloride in the	■ Yes □ No				
	produced water >10,000 mg/l?					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)				
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)				

Cause of Release

The release was caused by a leak of a flowline due to corrosion.

The release was off the pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be done at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No		onsible party consider this a major release? whom? When and by what means (phone, email, etc)?
II 125, was inilitediate in	side given to the OCD. By whom: 10 v	moni: when and by what means (phone, email, etc):
	Initial F	Response
The responsible p	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
The impacted area haReleased materials ha	ease has been stopped. Is been secured to protect human health an ave been contained via the use of berms or ecoverable materials have been removed a	dikes, absorbent pads, or other containment devices.
	d above have <u>not</u> been undertaken, explair	
has begun, please attach	a narrative of actions to date. If remedia	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please 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 no ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a th	e best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
Printed Name Brittar	ny N. Esparza	Title: Environmental Technician
Signature:	tangparge	Date: 2/14/2022
email: Brittany.Espar	ny N. Esparza za@ConocoPhillips.com	Date: 2/14/2022 Telephone: (432) 221-0398
OCD Only Received by: Ramona M	A arcus	Date: 2/15/2022

L48 Spill Volume Estimate Form Received by OCD: 6/24/2022 9:34:44 AMI per: Uncle Sam 13 Fed #1 Page 1125cof 130 Asset Area: DBE NAPP2204545095 Release Discovery Date & Time: 1/28/2022 Release Type: Produced Water Provide any known details about the event: flow line leak Spill Calculation - On Pad Surface Pool Spill Deepest point in Estimated Convert Irregular shape No. of boundaries Estimated Pool Estimated volume Penetration Total Estimated Width each of the Length Average of "shore" in each into a series of of each pool area allowance Volume of Spill Area (ft.) (ft.) Depth areas rectangles (bbl.) area (sq. ft.) (bbl.) (ft.) (in.) (ft.) Rectangle A 5.0 6.0 0.50 30,000 0.014 0.074 0.001 0.074 Rectangle B 1.0 8.0 0.50 8.000 0.014 0.020 0.001 0.020

Rectangle C 0.000 #DIV/0! #DIV/0! #DIV/0! #DIV/0!

#DIV/0! Rectangle D 0.000 #DIV/0! #DIV/0!

#DIV/0! #DIV/0! Rectangle E 0.000 #DIV/0! #DIV/0! #DIV/0!

Rectangle F 0.000 #DIV/0! #DIV/0! #DIV/0! #DIV/0!

Rectangle G #DIV/0! #DIV/0! #DIV/0! 0.000

#DIV/0! Rectangle H 0.000 #DIV/0! #DIV/0! #DIV/0!

#DIV/0!

#DIV/0! #DIV/0! #DIV/0! #DIV/0! Rectangle I 0.000

#DIV/0!

0.000 #DIV/0! #DIV/0! #DIV/0! Released to Imaging: 7/6/2022 3:05:22 PM1

Total Volume Release:

0.094

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 81343

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	81343
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date	l
rmarcus	None	2/15/2022	l

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>50 (ft bgs)</u>			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well 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 	ls.			
Topographic/Aerial maps				

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.

□ Laboratory data including chain of custody

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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: Charles R. Beauvais 99	Date:06/06/2022				
email: Charles.R.Beauvais@conocophillips.com	Telephone:(575) 988-2043				
OCD Only					
Received by:	Date:				

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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	g items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29	P.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OI	DC 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 certamay endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the	-
Printed Name: Charles Beauvais	Title:Senior Environmental Engineer
Signature: Charles R. Beauvais 99	
email: Charles.R.Beauvais@conocophilips.com	Telephone:575) 988-2043
OCD Only	
Received by:	Date:
	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date: 07/06/2022
Closure Approved by:	Title: Environmental Specialist A

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CONDITIONS

Action 120268

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	120268
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	jnobui Closure Report Approved. Please note the depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old. However, the case was remediated to the most stringent NMOCD criteria and closure can be granted.	